Many Mexican Americans Postpone Breast Exam

BY PATRICE WENDLING

n alarming 51% of women failed to seek out medical care after detecting a change in their breasts through self-examination, in a study of 314 Mexican American women with invasive breast cancer.

The most common method of breast cancer detection was self-exam (68%), which included routine breast exam and

incidental self-discovery, followed by screening mammography (22%), clinical exam by a health professional (6%), and other methods (5%) (percentages are

The study was reported by Rachel Zenuk and her associates in a poster at a conference sponsored by the American Association for Cancer Research.

After noticing a change in their breasts, 159 of the women reported waiting a month or more before seeking medical attention.

Of these, 143 waited 1-11 months and 16 patients waited 1 year or more.

The most common reasons for prolonging medical care were the following: They "did not feel it was important" (33%), they did not have insurance (31%), they were afraid (13%), and their physicians did not have any earlier appointments (12%).

The low rate of mammography screening in the Hispanic women in this study stands in sharp contrast to rates of 70%-80% reported among Hispanics in national surveys such as the Breast Risk Factor Survey, Ms. Zenuk, a graduate student at the University of Arizona Cancer Center in Tucson, told reporters at a press briefing.

However, previous studies have demonstrated that large ethno-regional differences in breast cancer screening rates exist among Hispanic groups across the country, with less than 50% of Mexican American women in Texas border regions reporting having received recent mammograms (Health Educ. Res. 2000; 15:559-68)

Ms. Zenuk and her associates evaluated a variety of sociocultural factors

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that might have influenced mammography utilization in their cohort.

Women aged 25-86 years (median 49 years) were recruited from Houston and various Arizona cities and completed the ELLA Risk Factor Questionnaire via interviews in English and Spanish.

At the time of the interview, 264 of the 314 women were aged 40 or older. Among these women, 72% reported undergoing prior mammography.

Significant differences in mammography screening were observed between women who reported high English language use (85%) and those with lower use (59%), the investigators reported.

Those with a high school degree or higher were also significantly more likely to have received prior mammography versus those with lower levels of education (77% vs. 64%).

The same was true of Mexican American women born in the United States (85%), compared with those born outside the United States (63%).

A majority of the Mexican American women in this study (73%) reported high exposure to Spanish media, suggesting a way to improve culturally appropriate beast cancer screening education, including information about affordable medical programs in their communities, the authors wrote.

"We're definitely thinking that we have to develop an intervention model that addresses these complex issues, including prompt detection and reporting" when breast changes are detected, Ms. Zenuk told reporters.

The study is part of the ELLA Binational Breast Cancer Study, which is funded by the National Cancer Institute and the Avon Foundation.

The investigators reported no conflicts

References: 1. Woerle HJ, Neumann C, Zschau S, et al. Impact of fasting and postprandial glycemia on overall glycemic control in type 2 diabetes: importance of postprandial glycemia to achieve target HbA1c levels. Diabetes Res Clin Pract. 2007;77(2):280-285. 2. Liebil A, Prager R, Binz K, Kaiser M, Bergenstal R, Gallwitz B, for the PREFER Study Group. Comparison of insulin analogue regimens in people with type 2 diabetes mellitus in the PREFER Study: a randomized controlled trial [published online ahead of print July 17, 2008]. Diabetes Obes Metab. doi:10.1111/j.1463-1326.2008.00915.X. 3. American Diabetes Association. Standards of medical care in diabetes—2008. Diabetes Care. 2008;31(suppl 1):S12-S54.

NovoLog® (insulin aspart [rDNA origin] injection)

BRIEF SUMMARY. Please consult package insert for full prescribing information.

 $\label{locations} \textbf{INDICATIONS AND USAGE:} \ \ \text{NovoLog}^{\circledcirc} \ \ \text{is an insulin analog indicated to improve glycemic control in adults and children with diabetes mellitus.}$

 $\textbf{CONTRAINDICATIONS:} \ \ \text{NovoLog}^{\circledcirc} \ \ \text{is contraindicated during episodes of hypoglycemia and in patients hypersensitive to NovoLog}^{\circledcirc} \ \ \text{or one of its excipients.}$ 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®s short 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 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 of patients who change their level of physical activity of patients who change their level of physical activity of patients who change their level of physical activity of patients who change their level of physical activity of patients and patients are provided as a patient 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 infusion pump therapy must be trained to administer insulin by injection and have alternate insulin infusion pump therapy must be trained to administer insulin by injection and have alternate insulin infusion pump therapy mailable in case of pump failure. **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 were assistance of another person and/or parenteral glucose infusion or glucagon administrations like the produces of the patients who any the pred 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 Infreated, may cause respiratory paralysis, ventricular arritythmia, 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 [see Clinical Pharmacology]. Hypersensitivity and Allergic Reactions: Local Reactions - As with other insulins, the dose requirements for NovoLog® may be reduced in patients with hepatic impairment [see Clinical Pharmacology]. Hypersensitivity and Allergic Reactions: Local Reactions - As with other insulin herapy, patients may experience redness, swelling, or tiching at the size 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, wheecing, 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®. In controlled and uncontrolled clinical trials, 3 of 2341 (0.1%) NovoLog® administration with NovoLog® and an uncontrolled clinical trials, and the mission produced by different patients with type 1 diabetes suggest that the increase in ant

pump system for longer than 48 hours. Reservoirs and infusion sets should be changed at least every 48 hours. 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 Dosage and Administration, Warnings and Precautions and How Supplied/Storage and Handling, Patient Counseling Information).

ADVERSE REACTIONS: Clinical Trial Experience: Because clinical trials are conducted unde 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 rates actually observed in clinical practice. <u>Hypoglycemia:</u> Hypoglycemia is the most commonly observed adverse reaction in patients using insulin, including NovoLog® [see Warnings and Precautions]. <u>Insulin initiation and glucose control intensification:</u> Intensification or rapid improvement in glucose control has been and glucose control macrosmacros. Interstination of a plan important in glucose control has a sosciated 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. Lipodystrophy: 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. *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 drug reactions during NovoLog® clinical trials in patients with type 1 diabetes mellitus and the 2 diabetes mellitus and the tables below. mellitus and type 2 diabetes mellitus are listed in the tables below.

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® compared to human regular insulin are listed)

Preferred Term	NovoLog® + NPH N= 596		Human Regular Insulin + NPH N= 286	
	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 symptoms. See Clinical Studies for the incidence of serious hypoglycemia in the individual clinical trials

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 listed)

	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 symptoms. See *Clinical Studies* for the incidence of serious hypoglycemia in the individual clinical trials.

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 postapproval use [see Patient Counseling Information].

OVERDOSAGE: Excess insulin administration may cause hypoglycemia and, particularly when given intravenously, hypokalemia. Mild episodes of hypoglycemia usually can be treated with nal 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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NovoLog® is a registered trademark of Novo Nordisk A/S.

NovoLog® is covered by US Patent Nos 5,618,913; 5,866,538; and other patents pending.

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