Practice Trends

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THE OFFICE

Don't Keep Your Patients Waiting

onsumer Reports surveyed its readers last year regarding their satisfaction with their medical care and found that

the "overwhelming majority ... were highly satisfied with their doctors." Of course, they did have some complaints.

As you might expect, their top complaint was the time spent waiting to see their doctors—24% said they frequently waited 30 minutes or longer. Here are some suggestions to help keep you on track:

▶ **Start on time.** That seems obvious, but I'm always amazed at the number of doctors who admit to running late who also admit that they start late. If you're in the hole before you start, you can seldom dig yourself out. Sometimes an on-time start is the solution to the entire problem. Try it.

▶ Book realistically. Everyone works at a different pace. Determine the number of patients you can comfortably see in an hour, and book only that number. If you want to see more patients, the solution is working longer hours or hiring physicians or physician extenders (or both), not overloading your schedule.

▶ Time-stamp each chart. Every office

should have a time clock, not only for employees, but for patients as well. As each patient arrives, have your receptionist timestamp the "encounter form" that goes to the back with the chart. As you take each chart off the door and enter the room, a quick glance at the time stamp will tell you how long the patient has been waiting.

► Schedule all procedures. If you haven't scheduled the time necessary for a procedure, don't do it. It may be tempting to squeeze it in because you feel guilty that the patient has had to wait for you, but every unscheduled procedure puts you that much further behind. And hurrying increases the risk of mistakes. Tell the patient the procedure requires extra time and can't be rushed, so you will have to schedule.

► Work-ins come last, not first. Patients with urgent problems should be seen after scheduled patients. Receptionists often assume it's better to squeeze them in early, while you're still running on time, but doing that guarantees you will run late, and it isn't fair to patients who have appointments and expect to be seen promptly. Work-ins expect a wait because they have no appointment. We tell them our schedule is full, but if they come at the end of hours, they'll see a doctor though they may have a wait. Far from complaining, they invariably thank us for seeing them.

▶ Seize the list. You know which list I mean: "No. 16: My right big toe itches. No. 17: I think I feel something on my back..." When a list is produced, the best option is to read it yourself. Identify the most important two or three problems and address them. For the rest, I will say, "This group of problems deserves a visit of its own, and we will schedule that visit." Ask if you can place the list (or a photocopy) in the patient's chart. It is, after all, important clinical information. All of these problems are important to the patient and should be addressed-but on your schedule, not the patient's.

► **Avoid interruptions.** Especially phone calls. Unless it's an emergency or an immediate family member, my receptionists say, "I'm sorry, the doctor is with patients. May I take a message?" Everyone—even other physicians—understands. Just be sure to return those calls promptly.

Pharmaceutical reps should not be allowed to interrupt you, either. Have them make an appointment. Don't stop to open the mail, do paperwork, or perform any other task that can be delegated.

There will be times, of course, when you run late, but they should be the exception rather than the rule.

Incidentally, the other leading patient complaints in the Consumer Reports survey were: couldn't schedule an appointment within a week (19%), spent too little time with me (9%), didn't provide test results promptly (7%), and didn't respond to my phone calls promptly (6%).

Now would be an excellent opportunity to identify and address any of those problems as well.



insulin detemir (rDNA origin) injection

Rx ONLY BRIEF SUMMARY. Please see package insert for

INDICATIONS AND USAGE

LEVENIR is indicated for once- or twice-daily subcutaneous administration for the treatment of adult and pediatric patients with type 1 diabetes mellitus or adult patients with type 2 diabetes mellitus who require basal (long acting) insulin for the control of hyperglycemia.

CONTRAINDICATIONS

LEVEMIR is contraindicated in patients hypersensitive to insulin determin or one of its excipients.

WARNINGS
Hypoglycemia is the most common adverse effect of insulin therapy, including LEVEMIR. As with all insulins, the timing of hypoglycemia may differ among various insulin formulations.

Glucose monitoring is recommended for all patients with diabetes.

LEVEMIR is not to be used in insulin infusion pumps

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

PRECAUTIONS General

nadequate dosing or discontinuation of treatment may lead to Inadequate dosing or discontinuation of treatment may lead to hyperglycemia and, in patients with type 1 diabetes, diabetic ketoacidosis. The first symptoms of hyperglycemia usually occur gradually over a period of hours or days. They include nausea, vomiting, drowsiness, flushed dry skin, dry mouth, increased urination, thirst and loss of appetite as well as acetone breath. Untreated hyperglycemic events are potentially fatal.

LEVEMIR is not intended for intravenous or intramuscular administration. The prolonged duration of activity of insulin determir is dependent on injection into subcutaneous tissue. Intravenous administration of the usual subcutaneous dose could result in severe hypoglycemia. Absorption after intramuscular administration is both faster and more extens than absorption after subcutaneous administration.

LEVEMIR should not be diluted or mixed with any other insulin preparations (see PRECAUTIONS, Mixing of Insulins)

Insulin may cause sodium retention and edema, particularly if previously poor metabolic control is improved by intensified

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

As with all insulin preparations, the time course of LEVEMIR action may vary in different individuals or at different times in the same individual and is dependent on site of injection, blood supply, temperature, and physical activity.

Adjustment of dosage of any insulin may be necessary if patients change their physical activity or their usual meal plan.

Hypoglycemia
As with all insulin preparations, hypoglycemic reactions may be associated with the administration of LEVEMIR. Hypoglycemia is the most common adverse effect of insulins. 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 (see PREC AUTIONS, Drug Interactions). Such situations may result in severe hypoglycemia (and, possibly, loss of consciousness) prior to patients' awareness of hypoglycemia.

of hypoglycemia.

The time of occurrence of hypoglycemia depends on the action profile of the insulins used and may, therefore, change when the treatment regimen or timing of dosing is changed. In patients being switched from other intermediate or long-acting insulin preparations to once- or twice-daily LEVEMIR, dosages can be prescribed on a unit-to-unit basis; however, as with all insulin preparations, dose and timing of administration may need to be adjusted to reduce the risk of hypoglycemia.

Renal ImpairmentAs with other insulins, the requirements for LEVEMIR may need to be adjusted in patients with renal impairment.

Hepatic ImpairmentAs with other insulins, the requirements for LEVEMIR may need to be adjusted in patients with hepatic impairment.

Injection Site and Allergic Reactions

Injection Site and Allergic Reactions
As with any insulin therapy, lipodystrophy may occur at the injection site and delay insulin absorption. Other injection site reactions with insulin therapy may include redness, pain, itching, hives, swelling, and inflammation. Continuous rotation of the injection site within a given area may help to reduce or prevent these reactions. Reactions usually resolve in a few days to a few

weeks. On rare occasions, injection site reactions may require discontinuation of LEVEMIR.

Systemic allergy: Generalized allergy to insulin, which is less common but potentially more serious, 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.

Intercurrent Conditions

Insulin requirements may be altered during intercurrent conditions such as illness, emotional disturbances, or other

Information for Patients

Information for Patients
LEVEMIR must only be used if the solution appears clear and colorless with no visible particles. Patients should be informed about potential risks and advantages of LEVEMIR therapy, including the possible side effects. Patients should 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 dosage, instruction for use of injection devices and proper storage of insulin. Patients should be informed that frequent, patient-performed blood glucose measurements are needed to achieve effective glycemic control to avoid both hyperglycemia and hypoglycemia. Patients must be instructed on handling of special situations such as intercurrent conditions (illness, stress, or emotional disturbances), an inadequate or skipped insulin dose, inadvertent administration of an increased insulin dose, inadventent administration of an increased insulin dose, inadequate food intake, or skipped meals. Refer patients to the LEVEMIR "Patient Information" circular for additional information. As with all patients who have diabetes, the ability to concentrate and/or

As with all patients who have diabetes, the ability to concentrate and/or react may be impaired as a result of hypoglycemia or hyperglycemia Patients with diabetes should be advised to inform their health care professional if they are pregnant or are contemplating pregnancy (see PRECAUTIONS, Pregnancy).

Laboratory Tests

should be monitored by periodic blood glucose tests. Periodic measurement of HbA_{tc} is recommended for the monitoring of long-term glycemic control.

Drug InteractionsA number of substances affect glucose metabolism and may require insulin dose adjustment and particularly close monitoring.

insulin dose adjustment and particularly close monitoring. The following are examples of substances that may reduce the blood-glucose-lowering effect of insulin: corticosteroid danazol, diuretics, sympathomimetic agents (e.g., epinephi albuterol, terbutaline), isoniazid, phenothiazine derivatives, somatropin, thyroid hormones, estrogens, progestogens (e.g., in oral contraceptives).

The following are examples of substances that may increase the blood-glucose-lowering effect of insulin and susceptibility to hypoglycemia: oral antidiabetic drugs, ACE inhibitors, disopyramide, fibrates, fluoxetine, MAO inhibitors, propoxyphe salicylates, somatostatin analog (e.g., octreotide), and sulfonamide antibiotics. sulfonamide antibiotics.

Beta-blockers, clonidine, lithium salts, and alcohol may either potentiate or weaken the blood-glucose-lowering effect of insulin. Pentamidine may cause hypoglycemia, which may sometimes be followed by hyperglycemia. In addition, under the influence of sympatholytic medicinal products such as beta-blockers, clonidine, guanethidine, and reserpine, the signs of hypoglycemia may be reduced or absent.

The results of *in-vitro* and *in-vivo* protein binding studies demonstrate that there is no clinically relevant interaction betwinsulin detemir and fatty acids or other protein bound drugs.

Mixing of Insulins
If LEVEMIR is mixed with other insulin preparations, the profile
of action of one or both individual components may change.
Mixing LEVEMIR with insulin aspart, a rapid acting insulin
analog, resulted in about 40% reduction in AUC (DO 2014), and C (DO 2014) and C (DO 2014) are insulin aspart compared to separate injections when the
ratio of insulin aspart to LEVEMIR was less than 50%.

LEVEMIR should NOT be mixed or diluted with any other

Carcinogenicity, Mutagenicity, Impairment of Fertility
Standard 2-year carcinogenicity studies in animals have not
been performed. Insulin determit rested negative for genotoxic
potential in the *in-vitro* reverse mutation study in bacteria,
human peripheral blood lymphocyte chromosome aberration
test, and the *in-vivo* mouse micronucleus test.

test, and the *in-vivo* mouse micronucleus test. **Pregnancy: Teratogenic Effects: Pregnancy Category C**In a fertility and embryonic development study, insulin detemir was administered to female rats before mating, during mating, and throughout pregnancy at doses up to 300 nmol/kg/day (3 times the recommended human dose, based on plasma Area Under the Curve (AUC) ratio). Doses of 150 and 300 nmol/kg/day produced numbers of litters with visceral anomalies. Doses up to 900 nmol/kg/day (approximately 135 times the recommended human dose based on AUC ratio) were given to rabbits during organogenesis. Drug-dose related increases in the incidence of fetuses with gall bladder abnormalities such as small, bilobed, bifurcated and missing gall bladders were observed at a dose of 900 nmol/kg/day. The rat and rabbit embryofetal development studies that included concurrent human insulin control groups

indicated that insulin detemir and human insulin had similar effects regarding embryotoxicity and teratogenic

Nursing mothers It is unknown whether LEVEMIR is excreted in significant amounts in human milk. For this reason, caution should be exercised when LEVEMIR is administered to a nursing mother. Patients with diabetes who are lactating may require adjustments in insulin dose, meal plan, or both.

Pediatric use In a controlled clinical study, HbA $_{1c}$ concentrations and rates of hypoglycemia were similar among patients treated with LEVEMIR and patients treated with NPH human insulin.

Geriatric use

Of the total number of subjects in intermediate and long-term clinical studies of LEVEMIR, 85 (type 1 studies) and 363 (type 2 studies) were 65 years and older. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the nas not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. In elderly patients with diabetes, the initial dosing, dose increments, and maintenance dosage should be conservative to avoid hypoglycemic reactions. Hypoglycemia may be difficult to recognize in the elderly.

ADVERSE REACTIONS

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

Body as Whole: allergic reactions (see PRECAUTIONS, Allergy) Skin and Appendages: lipodystrophy, pruritus, rash. Mild injection site reactions occurred more frequently with LEVEMIR than with NPH human insulin and usually resolved in a few days to a few weeks (see PRECAUTIONS, Allergy).

Hypoglycemia: (see WARNINGS and PRECAUTIONS).

type 2 diabetes, the incidence of severe hypoglycemia with type 1 and type 2 diabetes, the incidence of severe hypoglycemia with LEVEMIR was comparable to the incidence with NPH, and, as expected, greater overall in patients with type 1 diabetes (Table 4).

Weight gain:
In trials of up to 6 months duration in patients with type 1 and type 2 diabetes, LEVEMIR was associated with somewhat less weight gain than NPH (Table 4). Whether these observed differences represent true differences in the effects of LEVEMIR and NPH insulin is not known, since these trials were not blinded and the protocols (e.g., diet and exercise instructions and monitoring) were not specifically directed at exploring hypotheses related to weight effects of the treatments compared. The clinical significance of the observed differences has not been established.

| Table 4: | Safety Information on Clinical Studies | | | | | |
|-----------|--|---------------|-------------|---------------------|---|---------|
| | Treatment | # of subjects | Weight (kg) | | <u>Hypoglycemia</u> (events/subject/month) | |
| | | | Baseline | End of treatment | Major* | Minor** |
| Type 1 | | | | | | |
| Study A | LEVEMIR | N=276 | 75.0 | 75.1 | 0.045 | 2.184 |
| | NPH | N=133 | 75.7 | 76.4 | 0.035 | 3.063 |
| Study C | LEVEMIR | N=492 | 76.5 | 76.3 | 0.029 | 2.397 |
| | NPH | N=257 | 76.1 | 76.5 | 0.027 | 2.564 |
| Study D | LEVEMIR | N=232 | N/A | N/A | 0.076 | 2.677 |
| Pediatric | NPH | N=115 | N/A | N/A | 0.083 | 3.203 |
| Type 2 | | | | | | |
| Study E | LEVEMIR | N=237 | 82.7 | 83.7 | 0.001 | 0.306 |
| | NPH | N=239 | 82.4 | 85.2 | 0.006 | 0.595 |
| Study F | LEVEMIR | N=195 | 81.8 | 82.3 | 0.003 | 0.193 |
| | MDLI | N-200 | 70.6 | 90.0 | 0.006 | A 225 |

Major = requires assistance of another individual because of neurologic

**Minor = plasma glucose <56 mg/dl, subject able to deal with the episode him/herself

OVERDOSAGE

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 exercis may be needed. More severe episodes with coma, seizure, or neurologic impairment may be treated with intramuscular/ subcutaneous glucagon or concentrated intravenous glucose. After apparent clinical recovery from hypoglycemia, continued observation and additional carbohydrate intake may be necessary to avoid reoccurrence of hypoglycemia.

More detailed information is available on request. Rx only

Manufactured for Novo Nordisk Inc., Princeton, NJ 08540

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