New Zealand Offers No-Fault Compensation Model

BY MARY ELLEN SCHNEIDER Senior Writer

Alexandria, VA. — In New Zealand, all physicians pay \$700 a year for indemnity insurance, and it's nearly impossible to sue a physician.

That's because New Zealand has had a no-fault injury compensation system in place for the last 30 years.

The Accident Compensation Corporation (ACC), a state-funded insurer estab-

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lished in 1974, addresses unmet patient expenses from injuries. And since 1994, New Zealand's Health and Disability Commissioner has handled complaint resolution and provider accountability.

"We've made a really good start," Marie Bismark, M.B., a legal advisor to the New Zealand health and disability commissioner, said at a meeting on patient safety and medical liability sponsored by the Joint Commission on Accreditation of Healthcare Organizations.

BRIEF SUMMARY

Compensation is available to patients for medical errors that result from a failure to observe a reasonable standard of care. The ACC also provides compensation for medical mishaps that are defined as rare and severe adverse outcomes of appropriate treatment.

Dr. Bismark gave an example of how the system works: A 22-year-old woman with a history of pelvic pain underwent laparoscopy to confirm the diagnosis of endometriosis. During the surgery, her

bowel was perforated, which lead to peritonitis. The woman required further surgery to remove the perforated section of her bowel and form a temporary colostomy. She spent 3 weeks in critical care recovering.

New Zealand's Accident Compensation Corporation accepted the woman's claim as a medical mishap and she was awarded \$28,000 to cover treatment costs, pharmaceuticals, transportation, home help, and lost earnings.

In a situation where a person can no longer perform his or her job, the government will pay for retraining in a new career. And in cases of permanent disability, patients can receive a lump sum payment of up to \$70,000.

The experience has shown that patients typically aren't seeking to punish doctors; they want to see systemic changes to keep mistakes from happening again.

The no-fault system also has an accountability component. In 1994, the government established a code of patients' rights and designated the health and disability commissioner as the independent health ombudsman to enforce those rights.

Patient com-

plaints are often handled through advocacy or mediation. During the advocacy process, an independent patient advocate works to resolve the complaint directly with the provider.

In the case of mediation, a neutral third party assists the patient, the physician, and a representative of the hospital to come to a formal agreement.

Formal investigations are generally reserved for serious complaints, she said.

Few complaints proceed to a disciplinary hearing. In a typical year, they receive about 531 complaints, which lead to about 151 investigations and 10 disciplinary hearings.

So far, the experience with the no-fault system has shown that patients typically aren't seeking to punish physicians, Dr. Bismark said. Instead, they want to see systemic changes that will keep mistakes from happening again.

But a downside of the system is that there are many adverse events that ACC officials never hear about, Dr. Bismark said.

And complaints can still have toxic effects on the relationship between patients and physicians when they are not handled with care.

"This system is not neutral for doctors," she said.

Dr. Bismark pointed out that her country's system isn't necessarily a model for countries like the United States because of the differences in size and the structure of the health care system. New Zealand is a country of 4 million people, and its per capita health care costs are about \$1,857, compared with \$5,267 in the United States, she said. And New Zealand's no-fault system exists in the context of universal statefunded health care coverage.

The following is a brief summary only; see full prescribing information for complete product information CONTRAINDICATIONS CONTINUED TO THE ADDRESS OF THE ADDR Hypersensitivity reactions have been reported in patients who have exhibited hypersensitivity to other selective 5-HT₃ receptor antagonists.

5-HT, freeptor antagonists.
 PRECAUTIONS
 Ondansetron is not a drug that stimulates gastric or intestinal peristalsis. It should not be used instead of nasogastric suction. The use of ondansetron in patients following abdominal surgery or in patients with chemotherapy-induced nausea and vomiting may mask a progressive lieus and/or gastric distension.
 Information for Patients: *Phenylketonurics*: Phenylketonuric patients should be informed that ZOFRAN ODT Orally Disintegrating Tablets contain phenylalanine (a component of aspartame). Each 4-mg and 8-mg orally disintegrating tablet contains <-0.03 mg phenylalanine.
 Patients should be instructed not to remove ZOFRAN ODT Tablets from the bilster until just prior to dosing. The tablet should not be used in the foil. With dry hands, the bilster backing should be peeled completely off the bilster. The tablet should be gently removed and immediately placed on the tongue to dissolve and be swallowed with the saliva. Deelable illustrated stickers are affixed to the product:
 Drug Interactions: Ondansetron does not itself appear to induce or inhibit the cytochrome P-450 drug-metabolizing enzyme system of the liver (see CLINICAL PHARIMACOLLOGY, Pharmacohinetics in full prescribing information).
 Because ondansetron is metabolized by hepatic cytochrome P-450 drug-metabolizing enzymes (SYP3A4, (e.g. phenytoin, Carbamazepine, and Rifampicin: In patients treated with potent inducers of CYP3A4 (i.e., phenytoin, carbamazepine, and Rifampicin: In patients and swill be ata, no dosage adjustment is recommended for patients on these drugs. Tamadot: Although no pharmacokinetic drug interacton between ondansetron and tramadol has been observed, data from 2 small studies indicate that ondansetron may be associated with an increase in patient controlled administration of tramadol. *Chemotherapy*: Tumor response to chemotherapy. Tumor response to chemotherapy.
 In a crossover study in 76 pe

Use in Surgical Patients: The coadministration of ondansetron had no effect on the pharmacokinetics and

Use in Surgical Patients: The coadministration of ondansetron had no effect on the pharmacokinetics and pharmacodynamics of temazepam.
 Carcinogenesis, Mutagenesis, Impairment of Fertility: Carcinogenic effects were not seen in 2-year studies in rats and mice with oral ondansetron doses up to 10 and 30 mg/kg/day, respectively. Ondansetron was not mutagenic in standard tests for mutagenicity. Oral administration of ondansetron up to 15 mg/kg/day did not affect fertility or general reproductive performance of male and female rats.
 Pregnancy: Teratogenic Effects: Pregnancy Category B. Reproduction studies have been performed in pregnant rats and rabbits at daily oral doses up to 15 and 30 mg/kg/day, respectively, and have revealed no evidence of impaired fertility or harm to the fetus due to ondansetron. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if dearly needed.
 Nursing Mothers: Ondansetron is excreted in the breast milk of rats. It is not known whether ondansetron is excreted in human milk. Because many drugs are excreted in human milk. Caution should be used during pregnancy only if dearly needed.
 CulniCAL PHARMACOLOGY and DOSAGE AND ADMINISTRATION sections of full prescribing information for use in pediatric patients 4 to 18 years of age).
 Geriatric Use: Liftle information is available about dosage in pediatric patients 4 years of age or younger (see CLINICAL PHARMACOLOGY and DOSAGE AND ADMINISTRATION sections of full prescribing information or use in pediatric patients 4 to 18 years of age).
 Geriatric Use: Of the total number of subjects enrolled in cancer chemotherapy-induced and postoperative nausea and wormiting in US- and foreign-controlled cipreficences near son tidemitified differences in responses between the elderly and younger patients, but greater s

ADVERSE REACTIONS

ADVERSE REACTIONS The following have been reported as adverse events in clinical trials of patients treated with ondansetron, the active ingredient of ZOFRAN. A causal relationship to therapy with ZOFRAN has been unclear in many cases. Chemotherapy-Induced Nausea and Vomiting: The adverse events in Table 1 have been reported in 5% of adult patients receiving a single 24-mg ZOFRAN Table in 2 trials. These patients were receiving concurrent highly emetogenic cisplatin-based chemotherapy regimens (cisplatin dose 50 mg/m).

Table 1. Principal Adverse Events in US Trials: Single Day Therapy With 24-mg ZOFRAN Tablets (Highly Emetogenic Chemotherapy)

Event	Ondansetron 24 mg q.d. n = 300	Ondansetron 8 mg b.i.d. n = 124	Ondansetron 32 mg q.d. n = 117
Headache	33 (11%)	16 (13%)	17 (15%)
Diarrhea	13 (4%)	9 (7%)	3 (3%)
The adverse events in Table 2 have been reported in 5% of adults receiving either 8 mg of ZOFRAN Tablets 2 or 3 limes a day for 3 days or placebo in 4 trials. These patients were receiving concurrent moderately emetogenic chemotherapy, primarily cyclophosphamide-based regimens.			

Table 2. Principal Adverse Events in US Trials: 3 Days of Therapy With 8-mg ZOERAN Tablets (Moderately Emetogenic Chemotherapy

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Event	Ondansetron 8 mg b.i.d. $n = 242$	Ondansetron 8 mg t.i.d. $n = 415$	Placebo n = 262
Headache	58 (24%)	113 (27%)	34 (13%)
Malaise/fatigue	32 (13%)	37 (9%)	6 (2%)
Constipation	22 (9%)	26 (6%)	1 (<1%)
Diarrhea	15 (6%)	16 (4%)	10 (4%)
Dizziness	13 (5%)	18 (4%)	12 (5%)
Central Nervous S	veter: There have been rare re	ports consistent with but not	diagnostic of extranyramid

Central Nervous System: There have been rare reports consistent with, but not diagnostic of, extrapyramidal reactions in patients receiving ordensetron. Hepatic: In 723 patients receiving cyclophosphamide-based chemotherapy in US clinical 1/sitas, AST and/or ALT values have been reported to exceed twice the upper limit of normal in approximately 1/s 02% of patients receiving 20FRAN Tablets. The increases were transient and did not appear to be related to dose or duration of therapy. On repeat exposure, similar transient elevations in transaminase values occurred in some courses, but symptomatic hepatic disease did not occur. The role of cancer chemotherapy in these biochemical changes cannot be clearly determined.

Bin pointait repairs backase during court in the or carded relation to the point of the set backet interaction and ages carned be clearly determined. There have been reports of liver failure and death in patients with cancer receiving concurrent medications including potentially hepatotoxic cyctotoxic chemotherapy and antibiotics. The etiology of the liver failure is unclear. Integumentary: Rash has occurred in approximately 1% of patients receiving ondansetron. *Other*: Rare cases of anaphylaxis, bronchospasm, tachycardia, angina (chest pain), hyookalemia, electrocardio-graphic alterations, vascular occlusive events, and grand mal seizures have been reported. Except for bronchospasm and anaphylaxis, the relationship to ZOFRAN was unclear. **Radiation-Induced Nausea and Vomiting**: The adverse events reported in patients receiving ZOFRAN Tablets and concurrent redictotherapy were similar to those reported in patients receiving ZOFRAN Tablets and concurrent cancel therapeutity reported adverse events were hacadache, constipation, and diarrhea. **Postoperative Nausea and Vomiting**: The adverse events in Table 3 have been reported in \$% of patients receiving ZOFRAN Tablets at dosage of 16 mg orally in clinical trials. With the exception of headache, rates of these events were not significantly different in the ondansetron and placebo groups. These patients were receiving multiple concomitant perioperative and postoperative medications.

With ZOFRAN Tablets (Postoperative Nausea and Vomiting)				
Adverse Event	Ondansetron 16 mg (n = 550)	Placebo $(n = 531)$		
Wound problem	152 (28%)	162 (31%)		
Drowsiness/sedation	112 (20%)	122 (23%)		
Headache	49 (9%)	27 (5%)		
Hypoxia	49 (9%)	35 (7%)		
Pyrexia	45 (8%)	34 (6%)		
Dizziness	36 (7%)	34 (6%)		
Gynecological disorder	36 (7%)	33 (6%)		
Anxiety/agitation	33 (6%)	29 (5%)		
Bradycardia	32 (6%)	30 (6%)		
Shiver(s)	28 (5%)	30 (6%)		
Urinary retention	28 (5%)	18 (3%)		
Hypotension	27 (5%)	32 (6%)		
Pruritus	27 (5%)	20 (4%)		

Oraply District a small number of subjects suggest a nigher incidence of neadactic when ZOFRAN OD Orally District argaring Tablets are taken with water, when compared to without water. **Observed During Clinical Practice:** In addition to adverse events reported from clinical trials, the following events have been identified during post-approval use of oral formulations of ZOFRAN. Because they are reported voluntarily from a population of unknown size, estimates of frequency cannot be made. The events have been chosen for inclusion due to a combination of their seriousness, frequency of reporting, or potential causal connection to ZOFRAN General: Flushing. Rare cases of hypersensitivity reactions, sometimes severe (e.g., anaphylaxis/anaphylactoid

teartan - rusting, hate cases of hypersensitivity reactions, sometimes server (e.g., anapytexisanapprivation reactions, anglicedema, bronchospasm, shock, and cardiopulmonary arrest have occurred during allergic reactions in patients receiving injectable ondansetron. Hepatbbillary: Liver enzyme abnormalities Lower Respiratory: Hiccups Neurology: Oculogyric crisis, appearing alone, as well as with other dystonic reactions Skin: Urticaria

DRUG ABUSE AND DEPENDENCE Animal studies have shown that ondansetron is not discriminated as a benzodiazepine nor does it substitute for benzodiazepines in direct addiction studies. OVERDOSAGE

There is no specific antidote for ondansetron overdose. Patients should be managed with appropriate sup-portive therapy. Individual intravenous doses as large as 150 mg and total daily intravenous doses as large as 252 mg have been inadvertently administered without significant adverse events. These doses are more than 10 times the recommended daily dose.

In addition to the adverse events listed above, the following events have been described in the setting of ondansetron overdose: "Sudden blindness" (amaurosis) of 2 to 3 minutes' duration plus severe constipation occurred in 1 patient that was administered 72 mg of ondansetron intravenously as a single dose. Hypotensio (and faintness) occurred in a patient that took 48 mg of 20FRAN Tablets. Following influsion of 32 mg over only 4-minute period, a vasovagal episode with transient second-degree heart block was observed. In all instances the neuroenvolute exerction of the second s 4-minute period, a vasovagal episode with transient the events resolved completely.

May 2004 RL-2082



GlaxoSmithKline Research Triangle Park, NC 27709 ZOFRAN Tablets and Oral Solution: GlaxoSmithKline Research Triangle Park, NC 27709 ZOFRAN ODT Orally Disintegrating Tablets: Manufactured for GlaxoSmithKline Research Triangle Park, NC 27709 by Cardinal Health

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