ACP's Annual Report Criticizes U.S. Health Care

In clinical trials, the concomitant use of sulforylureas or biguanides did not alter the adverse event profile of SYMLIN. No formal interaction studies have been performed to assess the effect of SYMLIN on the kinetics of oral antidiabetic agents.

The pharmacokinetic parameters of SYMLIN were altered when mixed with regular, NPH, and 70/30 premixed formulations of recombinan human insulin immediately prior to injection. **Thus, SYMLIN and insulin should not be mixed and must be** administered separately.

, nic Effects: Pregnancy Category C. No adequate and well-controlled studies have been conducted in pregnant women

Studies in perfused human placenta indicate that SYMLIN has low potential to cross the maternal/fetal placental barrier. Embryofetal

toxicity studies with SYMLIN have been performed in rats and rabbits. Increases in congenital abnormalities (neural tube defect, deft

palate, exencephaly) were observed in fetuses of rats treated during organogenesis with 0.3 and 1.0 mg/kg/day (10 and 47 times the exposure resulting from the maximum recommended human dose based on AUC, respectively). Administration of doses up to

0.3 mg/kg/day SYMLIN (9 times maximum recommendeddose based on AUC) to pregnant rabbits had no adverse effects in embryofetal development; however, animal reproduction studies are not always predictive of human response. SYMLIN should be used during

It is unknown whether SYMLIN is excreted in human milk. Many drugs, including peptide drugs, are excreted in human milk. Therefore, SYMLIN should be administered to nursing women only if it is determined by the healthcare professional that the potential benefit

SYMLIN has been studied in patients ranging in age from 15 to 84 years of age, including 539 patients 65 years of age or older. The change

Adverse events (excluding hypoglycemia, discussed below) commonly associated with SYMLIN when co-administered with a fixed dose of

insulin in the long-term, placebo-controlled trials in insulin-using type 2 patients and type 1 patients, respectively, are presented in the following paragraphs. The same adverse events were also shown in the open-label clinical practice study, which employed flexible insulin

doxing. These are also presented below. Adverse events in patients with insulin-using type 2 diabetes—Treatment-emergent adverse events occurring with 25% incidence and greater incidence with SYMLIN (120 mg) compared with placebo in long-term, placebo-controlled trials are shown for placebo + insulin (N=284), SYMLIN + insulin (N=292), and for the open-label clinical practice study of SYMLIN + insulin (N=166).

respectively (n [%]): nausea 34 (12), 81 (28), 53 (30); headache 19 (7), 39 (13), 8 (5); anorexia 5 (2), 27 (9), 1 (<1); vomiting 12 (4), 24 (8), 13 (7); abdominal pain 19 (7), 23 (8), 3 (2); tatigue 11 (4), 20 (7), 5 (3); dizziness 11 (4), 17 (6), 3 (2); coughing 12 (4), 18 (6), 4 (2); pharyngitis 7 (2), 15 (5), 6 (3).

pharyngitis 7 (2), 15 (5), 6 (3). **Adverse events in patients with type 1 diabetes** — Treatment-emergent adverse events occurring with \geq 5% incidence and greater incidence with SYALIM (30 or 60 mcg) compared to placebo in long-term, placebo-controlled studies are shown for placebo + insulin (N=538), SYALIN + insulin (N=716), and for the open-label clinical practice study of SYMLIN + insulin (N=265), respectively (n[%]): neusea 92 (17), 342 (48), 98 (37); anorexia 12 (2), 122 (17), 0 (0); inflicted injury 55 (10), 97 (14), 20 (8); vomiting 36 (7), 82 (11), 18 (7); arthralgia 27 (5), 51 (7), 6 (2); fatigue 22 (4), 51 (7), 12 (45); allergic reaction 28 (5), 41 (6), 1 (<1); disziness 21 (4), 34 (5), 52 (10), 43 (4), 51 (7), 12 (45); allergic reaction 28 (5), 41 (6), 1 (<1); disziness 21 (4), 34 (5), 52 (10), 40 (4), 51 (7), 12 (45); allergic reaction 28 (5), 41 (6), 1 (<1); disziness 21 (4), 34 (5), 52 (10), 40 (4), 51 (7), 12 (45); allergic reaction 28 (5), 41 (6), 1 (<1); disziness 21 (4), 34 (5), 52 (7), 40 (5), 51 (7), 12 (45); allergic reaction 28 (5), 41 (6), 1 (<1); disziness 21 (4), 34 (5), 52 (7), 40 (3), 51 (7), 12 (45); allergic reaction 28 (5), 41 (6), 1 (<1); disziness 21 (4), 34 (5), 52 (7), 40 (3), 51 (7), 12 (45); allergic reaction 28 (5), 41 (6), 1 (<1); disziness 21 (4), 34 (5), 52 (7), 40 (3), 51 (7), 12 (45); allergic reaction 28 (5), 41 (6), 1 (<1); disziness 21 (4), 34 (5), 52 (7), 40 (3), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7), 51 (7),

in HbA1c values and hypoglycemia frequencies did not difer by age, but greater sensitivity in some older individuals canno Thus, both SYMLIN and insulin regimens should be carefully managed to obviate an increased risk of severe hypoglycemia.

pregnancy only if it is determined by the healthcare professional that the potential benefit justifies the potential risk to the fetu

BY JOEL B. FINKELSTEIN Contributing Writer

WASHINGTON — Despite the rhetoric favored by presidential candidates, the U.S. health care system is not the best in the world, but ranks near the bottom on most measures when compared with other industrialized nations, according to a new report issued by the American College of Physicians.

"I'm not pleased to say this, but when it

comes to health care, too many of us simply are not getting the kind of health care that we need and deserve and, in fact, many Americans do not have access to even basic health care," said Dr. David Dale, president of the American College of Physicians, speaking at the release of the college's annual State of the Nation's Health Care report at a conference sponsored by Academy Health.

Citing data culled from the Commonwealth Fund, the World Health Organi-

Mixing SYMLIN and Insulin

Aursing Mothers

tric Use

ADVERSE REACTIONS

outweighs the potential risk to the infant

Pediatric Use Fafety and effectiveness of SYMLIN in pediatric patients have not been established.

zation, and other sources, Dr. Dale noted that the United States ranks behind other industrialized nations in terms of access and equity, in helping patients lead healthier lives, in preventable deaths, and in infant mortality. The United States ranks second to last in overall quality of care, edging out only Canada—a country that spends half as much per capita on health care.

In fact, the United States spends more than double the amount most nations

not be ruled out.

spend on health care, yet continues to have poorer access and outcomes, Dr. Dale said.

And if U.S. health care spending continues to grow at its current pace, it can be expected to increase from 16% of gross domestic product in 2007 to 25% by 2025, according to Peter Orszag, Ph.D., director of the Congressional Budget Office, in congressional testimony that was delivered on the same day as ACP's report.

Efforts to enact major reform of the health care system have consistently failed in the past, but the projected spending growth may force the issue this time around, said Robert Doherty, the college's senior vice president of governmental affairs.

'Part of our hope is to provoke a debate within the profession itself about what is the most effective way of getting everyone covered in this country.'

"Health care will become so expensive that the country will no longer be able to support it." Mr. Doherty said.

In releasing its annual report, the ACP used the opportunity to call for a political commitment to provide univer-

sal coverage, bolster primary care, reform the payment system, reduce administrative costs, implement health information technology, and support effectiveness research.

The college also sent a "candidates pledge" outlining these policy goals to each of the presidential hopefuls as well as to the group's membership, who can in turn forward them to candidates for Congress.

The pledge will help ACP members ask the tough questions of candidates. The number of candidates who actually sign the pledge will be less important than how many of them end up advocating for the policies," Mr. Doherty said.

The American Medical Association recently launched a national ad campaign designed to spark discussion during the presidential campaigns about the problem of the uninsured.

'By November, millions of Americans will have heard the AMA's concern that one in seven of us is uninsured," Dr. Samantha Rosman, AMA board member, said in a statement.

Although the two physicians groups are not working together on these campaigns, they share a common end, Mr. Doherty said.

"Part of our hope is to provoke a debate within the profession itself about what is the most effective way of getting everyone covered in this country. But I don't think there is a real disagreement within the profession on the goal," he said.

ACP has launched a Web site that provides comparisons of the presidential candidates' health care proposals: www.acponline.org/ advocacy/where_we_stand/election.

Pages 62a—62bb

(pramlintide acetate) SymlinPen™ (pramlintide acetate) injection `pen-injector YMLIN Brief Summary: For complete details, please see Prescribing Inform WARNNG SYMLIN is used with insulin and has been associated with an increased risk of insulin-induced severe hypoglycemia, particularly in patients with type 1 diabetes. When severe hypoglycemia associated with SYMLIN use occurs, it is see within 3 hours following a SYMLIN injection. If severe hypoglycemia occurs while operating a motor vehicle, heavy machinery, or while engaging in other high-risk activities, serious injuries may occur. Appropriate patient selection, careful patient instruction, and insulin dose adjustments are critical elements for reducing this risk.

INDICATIONS AND USAGE mes and is indicated for

- VML IN is given at meatures and is indicated tor: Dype 2 diabetes, as an adjunct treatment in patients who use mealtime insulin therapy and who have failed to achieve desired glucose control despite optimal insulin therapy, with or without a concurrent sulfonylurea agent and/or metformin. Type 1 diabetes, as an adjunct treatment in patients who use mealtime insulin therapy and who have failed to achieve desired glucose control despite optimal insulin therapy.

CONTRAINDICATIONS

- CURENCIAL IONS
 SYMUN IS contraindicated in patients with any of the following:
 a known hypersensitivity to SYMUN or any of its components, including metacresol;
 a confirmed diagnosis of gastroparesis,
 hypoglycemia unawareness.

WARNINGS

- WARNINGS
 Patient Selection
 Proper patient selection is critical to safe and effective use of SYMLIN. Before initiation of therapy, the patient's HbA1c, recent
 blood glucose monitoring data, history of insulin-induced hypoglycemia, current insulin regimen, and body weight should be reviewed.
 SYMLIN therapy should only be considered in patients with insulin using type 2 or type 1 diabetes who fulfill the following criteria:
 have failed to achieve adequate glycemic control despite individualized insulin management;
 a receiving moging care under the guidance of a healthcare professional skilled in the use of insulin and supported by the services of
 diabetes educator(s).
- values e source(s); Partients meeting any of the following criteria should NOT be considered for SYMLIN therapy: \circ poor compliance with urrent insulin regimen; \circ poor compliance with prescribed self-blood glucose monitoring; \circ have an (HbAt $< \Im$);

- recurrent severe hypoglycemia requiring assistance during the past 6 months;
 presence of hypoglycemia unawareness;
- confirmed diagnosis of gastroparesis
- require the use of drugs that stimulate gastrointestinal motility;
- pediatric patients.

Hypoglycemia. SYMLIN alone does not cause hypoglycemia. However, SYMLIN is indicated to be co-administered with insulin therapy and in this setting SYMLIN increases the risk of insulin-induced severe hypoglycenia, particularly in patients with type 1 diabetes. Severe hypoglycenia associated with SYMLIN occurs within the first 3 hours following a SYMLIN injection. If severe hypoglycenia associated with SYMLIN needs with type 1 diabetes. While operating a motor which, ensay machinery, or while engaging in other high risk activities, serious injuries may occur. Therefore, when introducing SYMLIN therapy, appropriate precautions need to be taken to avoid increasing the risk for insulin-induced severe hypoglycemia. These precautions include frequent pre- and post-meal glucose monitoring combined with an initial 50% reduction in pre-meal doses of short-acting insulin (see DOSAGE and ADMINISTRATION).

Symptoms of hypoglycemia may include hunger, headache, sweating, tremor, irritability, or difficulty concentrating. Rapid reductions in blood glucose concentrations may induce such symptoms regardless of glucose values. More severe symptoms of hypoglycemia include loss of consciousness, coma, or seizure.

loss of conscousness, coma, or sezure. Early warning symptoms of hypoglycemia may be different or less pronounced under certain conditions, such as long duration of diabetes; diabetic nerve diases; use of medications such as beta-blockers, clonidime, guanethidine, or reserpine; or intensified diabetes control. The addition of any antihyperglycemic agent such as SYMLIN to an existing regimen of one or more anti-hyperglycemic agents (e.g., insulin, sulfunylurea), or other agents that can increase the risk of hypoglycemia may necessitate further insulin dose adjustments and a stridied vide on existing or folked eliverse.

and particularly close monitoring of blood glucose. The following are examples of substances that may increase the blood glucose-lowering effect and susceptibility to hypoglycemia: oral anti-diabetic products, ACE inhibitors, diisopyramide, fibrates, fluoxetine, MAO inhibitors, pentoxifylline, propoxyphene, salicylates, and

Substantine antiones. Clinical studies employing a controlled hypoglycemic challenge have demonstrated that SYMLIN does not aiter the counter-regulatory hormonal response to insulin-induced hypoglycemic. Likewise, in SYMLIN-treated patients, the perception of hypoglycemic symptoms was not altered with plasma glucose concentrations as low as 45 mg/dL.

PRECAUTIONS

 Spectral

 Hypoglycemia (See WARNINGS).

 SYMLIN should be prescribed with caution to persons with visual or dexterity impairment.

 Information for Patients: Healthcare providers should allow bot self-management practices including glucose monitoring, proper injection technique, timing of dosing, and proper storage of SYMLIN. In addition, reinforce the importance of adherence to meal planning, physical activity, recognition and management of hypoglycemia, and hyperglycemia, and assessment of diabetes complications. Refer patients to the SYMLIN Medication Guide and Patient Instructions for Use for additional information.

 Instruct patients on handling of special situations such as intercurrent conditions (illness or stress), an inadequate or omitted insulin dose, inadvertent administration of increased insulin or SYMLIN dose, inadequate food intake or missed meals.

 SYMLIN Mainsulin should advanys be administered as separate injections and never be mixed.

 Women with diabetes should be advised to inform their healthcare professional if they are pregnant or contemplating pregnancy.

 Real Impairment: The dosing requirements for SYMLIN are not altered in patients with moderate or severe renal impairment (QL > 20 to S50 m/min). Nos studes have been done in dialysis patients.

 Hearty: Cocal altery. Patients may experience redness, swelling, or riching at the site of injection. These minor reactions usually resolve in a few days to a few weeks, In some instances, these reactions may be related to factors other than SYMLIN, such as irritants in a skin deast on importer injections the table store of the dosing requirement enders.

In a new day, to a new news, in some instances, in sect reduction in ay be related to factors butter than 5 million, south as initiating in a skill clearsing agent or improper injection technique. Systemic Allergy, in controlled clinical trials up to 12 months, potential systemic allergic reactions were reported in 65 (5%) of type 2 patients and 59 (5%) of type 1 SYMLIN-treated patients. Similar reactions were reported by 18 (4%) and 28 (5%) of placebo-treated type 2 and type 1 patients, respectively. No patient receiving SYMLIN was withdrawn from a trial due to a potential systemic allergic reaction.

and type 1 patients, respectively. No patient receiving SYMLIN was withdrawn from a trial due to a potential systemic allergic reaction. **Drug Interactions** Due to its effects on gastric emptying, SYMLIN therapy should not be considered for patients taking drugs that alter gastrointestinal motility (e.g., anticholinergic agents such as atropine) and agents that slow the intestinal absorption of nutrients (e.g., a-glucosidase inhibitors). Patients using these drugs have not been studied in clinical trials. SYMLIN has the potential to delay the absorption of concomitantly administered oral medications. When the rapid onset of a concomitant orally administered agent is a critical determinant of effectiveness (such as analgesics), the agent should be administered at least 1 hour prior to or 2 hours after SYMLIN injection.

Beginning of SYMLIN treatment and decreased with time in most patients. The indence and severity of nausea are reduced when SYMLIN is gradually titrated to the recommended doses (see DOSAGE and ADMINISTRATION).
Seven Hypoglycemia
Seven Hypoglycemia, particularly in patients with type 1 diabetes (see Bosed Warnigo). The incidence of seven hypoglycemia increase the risk of insulin-induced hypoglycemia, particularly in patients with type 1 diabetes (see Bosed Warnigo). The incidence of seven hypoglycemia in a transmitter in most patients with type 1 diabetes (see Bosed Warnigo). The incidence of seven hypoglycemia in unit of the insulin care reduced hypoglycemia in patients with insulin-using type 2 diabetes — Incidence and event rate of seven hypoglycemia in long-term, placebo-controlled studies, the patient-ascertained event rate (patient particular) in insulin osilin dose -reduction during initiation) and at pastice study (insulin dose-reduction during initiation) are as follows. In the long-term, placebo-controlled studies, the patient-ascertained event rate (patient tare/patient year) for placebo + insulin was 0.24 and 0.13, at 0-3 months (n=284) and at 3-36 months (n=251), respectively, and the patient-ascertained event rate (patient tare/patient year) for SVMLIN + insulin was 0.43 and 0.39, at 0-3 months (n=252), respectively. In the ongen-label, clinical practice was 0.78 and 1.2%, respectively, and the patient-ascertained event rate (patient tare) for SVMLIN + insulin was 0.54 and 0.47%, respectively, and the medically assisted event rate (event rate/patient year) was 0.05 and 0.03, at 0-3 months (n=166) and at 3-36 months (n=255), respectively. In the open-label, clinical practice study of SYMLIN + insulin, hyper tare (apatient tare) patient-ascertained incidence was 0.66% and 0.7%, respectively, and the patient-ascertained incidence was 0.66% and 0.78, respectively. And the patient-ascertained incidence was 0.66% and 0.78, respectively. And the patient-ascertained incidence was 0.66% an OVERDOSAGE . Single 10 mg doses of SYMLIN (83 times the maximum dose of 120 mcg) were administered to three healthy volunteers. Severe nausea

was reported in all three individuals and was associated with vomiting, diarrhea, vasodilatation, and dizziness. No hypoglycemia was reported. SYMLIN has a short half-life and in the case of overdose, supportive measures are indicated. DOSAGE AND ADMINISTRATION

SYMLIA dosage differs depending on whether the patient has type 2 or type 1 diabetes (consult Prescribing Information for dosing instructions). When initiating therapy with SYMLIN, initial insulin dose reduction is required in all patients (both type 2 and type 1) to reduce the risk of insulin-induced hypoglycemia. As this reduction in insulin can lead to glucose elevations, patients should be monitored at regular intervals to asses SYMLIN tolerability and the effect on blood glucose, so that **individualized** insulin angliastments can be initiated. If SYMLIN therapy is discontinued for any reason (e.g., surgery or illnesses), the same initiation protocol should be followed when SYMLIN therapy is re-instituted.

The SymlinPen[™] pen-injectors and SYMLIN vials are manufactured for

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