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'Family-Focused' Depression Care Endorsed

BY JANE ANDERSON

hysicians and other health professionals who care for adults with depression should identify and seek to prevent potential "spillover" effects on their patients' children, according to a report released by the Institute of Medicine and the National Research Council.

To achieve this "family-focused" model of depression care, government agencies, nonprofit associations, and the private sector will need to experiment with nontraditional ways of organizing, delivering, and paying for mental health care, according to the committee that wrote the report.

Parental depression is prevalent, but a comprehensive strategy to treat the depressed adults and to prevent problems in the children in their care is absent," the report said. "There is also a lack of support for public and professional education, training, infrastructure development, and implementation efforts to improve the quality of services for affected families and vulnerable children."

Depression affects roughly 7.5 million parents in the United States annuallyabout 20% of parents overall, according to the report. More than 15 million children live with an adult who has had major depression in the last year, and parental

depression can increase the chances for health, emotional, and behavioral problems in children, the report said.

Dr. Mary Jane England, a psychiatrist and chairman of the report committee, said in a statement that the report describes "a new vision for depression care that would provide comprehensive services not just to adults, but to their children as well. It will take significant policy changes to make this vision a reality, but the benefits warrant the effort.'

The report recommended that the U.S. Surgeon General identify depression in parents and its effect on child development as part of its public health priorities. Further, the Heath and Human Services department should launch a national effort to document the scope of the problem, and should develop public education and awareness activities.

Congress, meanwhile, should authorize a new HHS demonstration project to look at strategies to identify, treat, and prevent depression in parents and its adverse effects on children, the report said. These strategies should use a combination of components, including screening and education.

The report also recommended that state governors each develop a task force focused on depression in parents. At the same time, HHS agencies including the Substance Abuse and Mental Health Services Administration (SAMHSA) and the Health Resources and Services Administration (HRSA) should develop a national training program for primary, mental health, and substance abuse treatment providers to improve diagnosis and treatment of depression in adults and mitigate its effect on children.

Federal agencies should support collaborative research to increase understanding of the issues that are related to parental depression, according to the

"To break the vicious circle of depression, we need to refocus our view of this illness through a broader lens that sees the whole family, not just the individual with depression," Dr. England said.

The Institute of Medicine and the National Research Council are both parts of the National Academies, the private, nonprofit institution that provides science, technology, and health policy advice to Congress. The study was sponsored by the Robert Wood Johnson Foundation, Annie E. Casey Foundation, The California Endowment, SAMHSA, and HRSA.

Web Screening Tool For Substance Use

The National Institute on Drug Abuse has developed an outreach initiative to help physicians identify and care for patients who are using tobacco, alcohol, or illicit drugs or misusing prescription medications. It includes an interactive Web site (www.drugabuse.gov/nidamed) that can be used during a routine office visit.



Brief Summary: For complete details, please see full Prescribing Information.

INDICATIONS AND USAGE: BYETTA is indicated as adjunctive therapy to improve glycemic control in patients with type 2 diabetes mellitus who are taking metformin, a sulfonylurea, a thiazolidinedione, a combination of metformin and a sulfonylurea, or a combination of metformin and a sulfonylurea, and a sulfonylurea, and a sulfonylurea, a sulfonylu

CONTRAINDICATIONS: BYETTA is contraindicated in patients with known hypersensitivity to exenatide or to any of the product components.

<u>PRECAUTIONS:</u> General—BYETTA is not a substitute for insulin in insulin-requiring patients. BYETTA should not be used in patients with type 1 diabetes or for the treatment of diabetic ketoacidosis.

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Postmarketing cases of acute pancreatitis have been reported in patients treated with BYETTA. Patients should be informed that persistent severe abdominal pain, which may be accompanied by vomiting, is the hallmark symptom of acute pancreatitis. If pancreatitis is suspected, BYETTA and other potentially suspect drugs should be discontinued, confirmatory tests performed and appropriate treatment initiated. Resuming treatment with BYETTA is not recommended if pancreatitis is confirmed and an alternative etiology for the pancreatitis has not been identified.

Patients may develop anti-exenatide antibodies following treatment with BYETTA, consistent with the potentially immunogenic properties of protein and peptide pharmaceuticals. Patients receiving BYETTA should be observed for signs and symptoms of hypersensitivity reactions. In a small proportion of patients, the formation of anti-exenatide antibodies at high titers could result in failure to achieve adequate improvement in glycemic control.

The concurrent use of BYETTA with insulin, D-phenylalanine derivatives, meglitnides, or alpha-glucosidase inhibitors has not been studied.

BYETTA is not recommended for use in patients with end-stage renal disease or severe renal impairment (creatinine clearance <50 mL/min; see Pharmacokinetics, Special Populations). In patients with end-stage renal disease receiving dialysis, single doses of BYETTA 5 mcg were not well tolerated due to gastrointestinal side effects.

There have been rare, spontaneously reported events of altered renal function, including increased serum creatinine, renal impairment, worsened chronic renal failure and acute renal failure, sometimes requiring hemodialysis. Some of these events occurred in patients receiving one or more pharmacologic agents known to affect renal function/hydration status and/or in

Table 1: Incidence (%) of Hypoglycemia* by Concomitant Antidiabetic Therapy

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	BYETTA					BYETTA			
	Placebo BID	5 mcg BID	10 mcg BID	Placebo BID	5 mcg BID	10 mcg BID	Placebo BID	5 mcg BID	10 mcg BID
	With Metformin			With a Sulfonylurea			With MET/SFU		
N Hypoglycemia	113 5.3%	110 4.5%	113 5.3%	123 3.3%	125 14.4%	129 35.7%	247 12.6%	245 19.2%	241 27.8%
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Hypoglycemia 53% 45% 53% 33% 14.4% 35.7% 12.6% 19.2% 27.8% 14.1% 15.2% 12.6% 19.2% 27.8% 14.4% 15.2% 12.6% 19.2% 27.8% 14.4% 15.2% 12.6% 19.2% 12.6% 19.2% 27.8% 14.4% 15.2% 12.6% 19.2% 19.2% 12.6% 19.2% 1

Patients should be advised to inform their physicians if they are pregnant or intend to become pregnant. The risk of hypoglycemia is increased when BYETTA is used in combination with an agent that induces hypoglycemia, such as a sulfonylurea (see PRECAUTIONS, Hypoglycemia). Patients should be advised that treatment with BYETTA may result in a reduction in appetite, food intake, and/or body weight, and that there is no need to modify the dosing regimen due to such effects. Treatment with BYETTA may also result in nausea (see ADVERSE REACTIONS). Patients should be informed that persistent severe abdominal pain, which may be accompanied by vomiting, is the hallmark symptom of acute pancreatitis and be instructed to contact their physician if this symptom occurs (see PRECAUTIONS).

Drug Interactions—The effect of BYETTA to slow gastric emptying may reduce the extent and rate of absorption of orally administered drugs. BYETTA should be used with caution in patients receiving oral medications that require rapid gastrointestinal absorption. For oral medications that are dependent on threshold concentrations for efficacy, such as contraceptives and antibiotics, patients should be advised to take those drugs at least 1 h before BYETTA

injection. If such drugs are to be administered with food, patients should be advised to take them with a meal or snack when BYETTA is not administered. The effect of BYETTA on the absorption and effectiveness of oral contraceptives has not been characterized. Warfarin: Since market introduction there have been some spontaneously reported cases of increased INR with concomitant use of warfarin and BYETTA, sometimes associated with bloodings.

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Carcinogenesis, Mutagenesis, Impairment of Fertility—A 104-week carcinogenicity study was conducted in male and female rats and benign thyroid C-cell adenomas were observed in female rats at all exenatide doses. The incidences in female rats were 896 and 596 in the two control groups and 1496, 1196, and 2396 in the low-, medium-, and high-dose groups with systemic exposures of 5, 22, and 130 times, respectively, the human exposure resulting from the maximum recommended dose of 20 mcg/day. In a 104-week carcinogenicity study in mice, no evidence of tumors was observed at doses up to 250 mcg/kg/day, a systemic exposure up to 95 times the human exposure resulting from the maximum recommended dose of 20 mcg/day.

Exenatide was not mutagenic or clastogenic, with or without metabolic activation, in the Ames bacterial mutagenicity assay or chromosomal aberration assay in Chinese hamster ovary cells.

ovary cells. Pregnancy Category C—Exenatide has been shown to cause reduced fetal and neonatal growth, and skeletal effects in mice at systemic exposures 3 times the human exposure resulting from the maximum recommended dose of 20 mcg/day. Exenatide has been shown to cause skeletal effects in rabbits at systemic exposures 12 times the human exposure resulting from the maximum recommended dose of 20 mcg/day. There are no adequate and well-controlled studies in pregnant women. BYETTA should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. In pregnant mice an increased number of neonatal deaths were observed on postpartum days 2-4 in dams given 6 mcg/kg/day, a systemic exposure 3 times the human exposure resulting from the maximum recommended dose of 20 mcg/day.

**Nursing Mothers—It is not known whether exenatide is excreted in human milk. Caution should be exercised when BYETTA is administered to a nursing woman.

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Pediatric Use—Safety and effectiveness of BYETTA have not been established in

pediatric patients.

Geriatric Use—BYETTA was studied in 282 patients 65 years of age or older and in 16 patients 75 years of age or older. No differences in safety or effectiveness were observed between these patients and younger patients.

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ADVERSE REACTIONS: Use with metformin and/or a sulfonylurea, adverse events with an incidence ≥5% (excluding hypoglycemia; see Table 1) that occurred more frequently in patients treated with BYETTA (N = 963) vs placebo (N = 483) were: nausea (44% vs 18%), vomiting (13% vs 4%), diarrhea (13% vs 6%), feeling jittery (9% vs 4%), diazrhess (9% vs 6%), headache (9% vs 6%), and dyspepsia (6% vs 5%).

The adverse events associated with BYETTA generally were mild to moderate in intensity. The most frequently reported adverse event, mild to moderate nausea, occurred in a dose-dependent fashion. With continued therapy, the frequency and severity decreased over time in most of the patients who initially expenenced nausea. Adverse events reported in ≥1.0 to <5.0% of patients receiving BYETTA and reported more frequently than with placebo included asthenia (mostly reported as weakness), decreased appetite, gastroesophageal reflux disease, and hyperhidrosis. Patients in the extension studies at 52 weeks experienced similar types of adverse events observed in the 30-week controlled trials.

The incidence of withdrawal due to adverse events was 7% for BYETTA-treated patients and 3% for placebo-treated patients. The most common adverse events leading to withdrawal for BYETTA-treated patients were nausea (3% of patients) and vomiting (1%). For placebo-treated patients, 1% withdrew due to nausea and 0% due to vormiting.

Use with a thiazolidimedione—In the 16-week placebo-controlled study of BYETTA add-on to a thiazolidimedione—In the 16-week placebo-controlled study of BYETTA adverse events observed were similar to those seen in the 30-week controlled clinical trials with metformin and/or a sulfonylurea. No serious adverse events were reported in the placebo arm. Two serious adverse events were reported in the

OVERDOSAGE: Effects of an overdose include severe nausea, severe vomiting, and rapidly declining blood glucose concentrations. In the event of overdose, appropriate supportive treatment should be initiated according to the patient's clinical signs and symptoms.

DOSAGE AND ADMINISTRATION: BYETTA therapy should be initiated at 5 mcg per dose administered twice daily at any time within the 60-minute period before the morning and evening meals (or before the two main meals of the day, approximately 6 hours or more apart). BYETTA should not be administered after a meal. Based on clinical response, the dose of BYETTA can be increased to 10 mcg twice daily after 1 month of therapy. Each dose should be administered as a SC injection in the thigh, abdomen, or upper arm.

Rx ONLY
Manufactured for Amylin Pharmaceuticals, Inc., San Diego, CA 92121
Marketed by Amylin Pharmaceuticals, Inc. and Eli Lilly and Company
1-800-868-1190
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