# **INDICATIONS**

#### Stuck in You

If you've been wondering what to do about that inch-long piece of plastic stuck in your lung, we've got good news. John Manley, a 50-year-old former home remodeler from Wilmington, N.C., had been coughing and experiencing fatigue and pneumonia spells for almost 2 years. It got so bad that he could barely leave the house, according to the Associated Press. After seeing several doctors, it was decided that he had a foreign object lodged in his left lung, but the best solution suggested was lung removal. When Dr. Momen Wahidi, director of interventional pulmonology at Duke University, heard about the case, he thought he could remove the mystery object with a rigid bronchoscope. Dr. Wahidi described the surgery to the AP: "We're looking at it and realizing that there are letters on it. ... We started reading out loud, 'A-M-B-U-R-G-E-R,' and realized it spelled, 'hamburgers.' "The full text of the object said, "Old Fashioned Hamburgers," identifying it as part of an eating utensil from a Wendy's restaurant. "I like to take big gulps of drink," Mr. Manley said. "I don't know of any other ways of it getting in there." More proof that fast food is not good for you.

## He's Just Pacing Himself

It's not unusual for people attending funerals to say that the deceased looks good—the funeral home industry

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wouldn't have it any other way—but what if the dearly departed looks too good? In Lorca, Spain, the family of a 70-year-old man who had died of a heart attack called a doctor during his funeral because his skin "still had a healthy pink glow," Agence France-Presse reported. The doctor concluded that the man, like Generalissimo Francisco Franco, was still dead. The reason the deceased man looked so good, the doctor said, was that his pacemaker was still working.

### Controlling H1N1 the Hard Way

If our world headquarters here in Rockville is any indication, the pandemic A(H1N1) influenza situation is fueling a boom in hand sanitizer. There could be a downside, though, as these wonder gels may be throwing a log onto a different fire. A nurse at an elder care home in northern Sweden was going about her business when her left hand suddenly burst into flames as she touched a metal cart, according to www.thelocal.se, our favorite Swedish Web site. The current theory is that static electricity ignited traces of the alco-

hol-based disinfectant she had used. The argument gains strength, apparently, because she had already petted a dog and "received a visit from a patient bearing synthetic trousers," according to The Local. After putting the fire out herself, she escaped with only minor burns. The product's manufacturer, Lehaga Kemi AB, reported having no knowledge of any similar incidents. Meanwhile, the dog has been cleared by local police, who don't support the static electricity theory, but the synthetic pants may still be charged.

-Richard Franki



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

NOTCHTIONS AND USAGE: SMETTA is indicated as adjunctive therapy to improve glycemic central in patients with type 2 diabetes mellifus who are taking meritornin, a suffonylurea, a thiazolidinedione, a combination of metiomin and a suffonylurea, or a combination of netformin and a suffonylurea.

<u>PRECALITIONS:</u> Convert—EVETTA is not a substitute for insulin in inculin-requiring patients. BYETTA should not be used in patients with type I diabates or for the treatment of diabate lectuacidasis.

Postmerheting cases of acute pancreatitis frave been reported in patients tracter with PFETA. Patients should be informed that persistent severe additionate pain, which may be accompanied by remaiting, is the hallmark symptom of ecose pancreatitis, ancreatitis is suspected, BYETA and other potentially suspect drugs should by iscontinued, confirmatory tests performed and appropriate treatment initiated examining treatment with EYETA is not recommended in pancreatitis is confirmed and appropriate treatment with EYETA is not recommended in pancreatitis and internative additions for the pancreatitis has not been identified.

Patients may accessor anti-exemption announced introduces to locations may receive the text of the potentially immunogenic properties of protein and peptide pharmaceuticals. Patient receiving BYETTA should be observed for signs and symptoms of hypersensitivity reaction in a small proponition of patients, the formation of anti-exemptide antibodies at high titer could result in failure to achieve adequate improvement in glycemic control.

or alpha-glucosidase inhibitors has not been studied.

BYETYTA is not recommended for use in patients with end-stage renal disease of severe renal impairment (creatinine clearance <50 mL/min; see Pharmacoldmetics, Specie Populations). In patients with end-stage renal disease receiving dialysis, single doses of the control of the patients with end-stage renal disease receiving dialysis, single doses of the control of the patients with end-stage renal disease receiving dialysis, single doses of the control of the patients with end-stage renal disease.

There have been rare, spontaneously reported events of altered rent function, includin increased serum creatinine, renal impairment, worsened dhomic renal failure and acut renal failure, sometimes requiring hermodialysis. Some of these events occurred in patient recovering one or more pharmacologic agents known to affect renal function/hydratio status and/or in patients experiencing nausea, vorniting, and/or clambea, with or without dehydration. Concomitant agents included angiotensin conventing enzyme inhibition nonsteroidal anti-inflammentory drugs, and discretize. Reversibility of altered renal function has been observed with supportive treatment and discontinuation of potentially causative agents, including exenative. Exenative has not been found to be directly nephrotoxic injustional or chinest studies.

RYFTITA has not been studied in patients with severe gastrointestinal disease, including gastroparesis. Its use is commonly associated with gastrointestinal adverse effects, including nausea, vomiting, and diamhea. Therefore, the use of BYFITA is not recommended in patients with severe gastrointestinal disease.

Hippoglyoemia—In the 30-week controlled clinical trials with BYETTA, a hypoglycem piscode was recorded as an adverse event if the patient reported symptoms associated wir sproglycemia with an accompanying blood glucose <a href="#">600</a> mg/cl. or if symptoms wer eported without an accompanying blood glucose reasurement. When BYETTA was use in combination with metromini, no increase in the incidence of hypoglycemia was observed. In contrast, when BYETTA was used in combination with a sulfonylurea, the notidence of hypoglycemia was increased over that of placebo in combination with ultionylurea. Therefore, patients receiving BYETTA in combination with a sulfonylurea in vave an increased risk of hypoglycemia (Table 1).

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

	Placebo BID						Placebo BID		
	With Melfornin								
N Hypoglycamia			113 53%		125 14,496	179 35,7%			

Abbreviations: BID, twice daily; MET/SFU, metormin and a sulforguesa.

Most episodes of hypoglycemia were mild to moderate in intensity, and all resolved oral administration of carbohydrate. To reduce the risk of hypoglycemia associated with

OOSAGE AND ADMINISTRATION). When used as add-on to a thiazo without metromin, the incidence of symptomatic mild to moderate average use 1.06 companied in 1.06 with placebo.

BYETTA did not alter the counter-regulatory hormone responses to insulin-induced hypoglycemia in a randomized, double-blind, comociled study in healthy subjects. Inflormation for Patients—Patients should be informed of the potential risks of BYETTA. Patients should also be fully informed about self-management practices, including the importance of proper storage of BYETTA, injection technique, timing of dosage of BYETTA se well as concomitant oral drugs, adherence to meal planning, regular physical activity, periodic blood placesse monitoring and HDAL testing, recognition and management of heprophyramia and hyperphysionia and assessment for dishester compiliarities.

Patients should be advised to inflore the property of the patients of the pati

The risk of typogycemia is increased when BYETTA is used in combination with an agent that induces hypogycemia, such as a sulfonylure (see PRECAUTIONS, Hypogycemia). Patients should be advised that treatment with BYETTA may result in a reduction in appoints, food intake, and/or body weight, and that there is no need to modify the desiring regimen due to such effects. Treatment with BYETTA may also result in natuses (see ADVERSE REACTIONS). Patients should be informed that persistent severe abdominal pain which may be accompanied by vomitting, is the hallmark symptom of acute pancestribs and a instructed to contract their physician if this symptom was (see REECAUTIONS).

per insurced to coming, their physician in this symptom docurs (see PRECAD Homes), along inheractions—The effect of BYETTA is slow gastric emplying may reduce the extenand 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 contraceptive and ambibidies, patients should be advised to take those drugs at least 1 h before BYETT. 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 contracertives has not been characterized.

Whatevin: Since market introduction there have been some appartmentally reported cases of increased INR with concomitant use of wallarin and BYETTA, sometimes associated with bleeding.

Camcinogenesis, Mutagenesis, Impairment of Ferillity—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 estenation decase. The incidences in female rats were 8% and 5% in the two control groups and 14%, 11%, and 23% 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 mog/day.

In a 104-week cardingenialty study in mice, no evidence of tumors was observed a dioses up to 250 mog/kg/day, a systemic exposure up to 35 times the human exposure resulting time the minum exposure resulting time the minum exposure.

Exemptide was not mutagenic or clastogenic, with or without metabolic activation, in the Arnes bacterial mutagenicity assay or chromosomal abarration assay in Chinese hamste ovary cells.

Priegnancy—Pregnancy Category C—Exenatide has been shown to cause reduced fet and neonatial growth, and skeletial effects in mice at systemic exposures 3 times the hums exposure resulting from the maximum recommended dose of 20 mag/day. Exenatide has been shown to cause skeletal effects in rabbits at systemic exposures 12 times the hums exposure resulting from the maximum recommended dose of 20 mag/day. There are n adequate and well-controlled studies in pregnant women. BYETTA should be used durin 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 postparture days 2-4 in dams given 5 mog/lg/day, a systemic exposure 3 times the human exposure resulting from the maximum recommended dose of 20 mog/day.

Nursing Modifiers—It is not known whether exenatide is excreted in human milk. Cautior should be exercised when BYETTA is administered to a nursing women.

Padiatric Use-Safety and effectiveness of BYETTA have not been established in pediatric patients. Geological to Loss-BYETTA was smalled in 282 partients 55 years of age or other and in

Genatura Use—brief in was studied in 282 patients 55 years of age or order and in 16 patients 75 years of age or older. No differences in safety or effectiveness were observed between these patients and younger patients.

controlled trials of BYETTA add-on to metformin and/or sulfornyturea, adverse events with an incidence ≥5% (excluding hypoglycemia; see Table 1) that occurred more frequently in patients treated with BYETTA (N = 963) vs pilacebo (N = 483) were: nausea (44% v 18%), borniting (13% vs 4%), diarrhea (13% vs 5%), feeling jirtery (3% vs 4%), diarrhea (13% vs 5%), feeling jirtery (3% vs 4%), diarrhea (13% vs 5%), feeling jirtery (3% vs 4%), diarrhea (13% vs 5%), feeling jirtery (3% vs 4%), diarrhea (3% vs 5%), headache (3% vs 5%), and dyspepsia (5% vs 3%).

The adverse events associated with BYETTR generally were mild to moderate in intensity. The most frequently reported adverse event, mild to moderate nausea, occurred in a dose dependent fashion. With commune therapy, the frequency and sevenity decreased over time in most of the patients who initially experienced nausea. Adverse events reported in 21.0 to 45.096 of patients receiving BYETTA and reported more frequently than with placebo included astrienia (mostly reported as weakness), decreased appetitis, gastioesophages reflux diseases, and hyperhidrosis. Patients in the extension studies at 52 weeks experienced similar topes of adverse events observed in the 20-week controlled trials.

The finddence 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 naused (3% of patients) and vomiting (1%). For placebo-treated patients, < 1% withdraw due to nauses and 0% due to vomiting.

Use with a thissolidimediane—In the 18-week placeba-controlled study of BYELLS add-on to a thissolidinediane, with or without methanin, the incidence and type of other adverse events observed were clinible to those seen in the 30-week controlled dirikal trial with methanin and/or a sulfonylurea. No serious adverse events were reported in the placebo arm. Two serious adverse events, parnely chest pain (leading to withdrawal) an chronic hypersensitivity oneumonitis, were reported in the PMETCA arm.

The incidence of withdrawal due to adverse exents was 1696 (19/121) for BYETTA realed patients and 296 (2/112) for BYETTA realed patients. The most common adverse wents leading to withdrawal for BYETTA-heated patients were nausea (996) and vorniting 596). For placebo-treated patients, <196 withdraw due to nausea. Chills (n = 4) and periodical patients. The two patients (n = 4) and propriet an injection-site precision (n = 2) occurred only in BYETTA-treated patients. The two patients (n = 4) and propriet an injection-site praction had bight little (n = 4) and (n = 4).

Spontanieous Deta-Since mailet introduction of BYETTA, the following additional adverse reactions have been reported. Because these exemis are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency of establish a causal relationship to drug espociue. Generate injection-site reactions; dysgessis somnolence, INR increased with concomitant wariain use (some reports associated with bleeding). Allergy/Pypersensitivity: generalized pruffus and/or univoria, macular or papula rash, angioedems; rare reports of enaphylactic reaction. Castrotritestinol: nausea, womiting and/or demander ensulting in dehydration; abdominar distension, abdominat pain, encursion constipation, flamilence, acute pancreatitis (see PRECAUTIONS). Renal and Univery Disorders altered renal function, including acute renal failure, verseened chronic renal failure, renal impairment, increased serum castrinine (see PRECAUTIONS).

Immunogenicity—Consistent with the potentially immunogenic properties of protein and peptide phermaceuticals, patients may develop anti-exenstide antibodies following treatmen with BYETTA.

paraments several refects or an overcose incure severe nausea, severe volunting, and rapic declining blood glucose concentrations. In the exent of overdades, appropriate supports treatment should be initiated according to the patient's clinical signs and symptoms.

<u>DECASES, AND A PARMITTE IZER INDERS</u>: BYELTA THE REPRESENDED E-minute period before the morring are evening meals (or before the two main meals of the day, approximately 6 hours or mor apart). BYETTA strouch not be administrated after a meal. Based on clinical response, the dose of BYETTA can be indeased to 10 mog twice daily after 1 month of therapy. Each dos should be administrated as a SC injection in the thigh, abdomen, or upper arm.

Manufactured for Amylin Pharmaceuticals, Inc., San Diego, CA 9212 Marketed by Amylin Pharmaceuticals, Inc. and Eli Lilly and Company

Literature Revised October 2007

02-07

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SOLUTIONS THROUGH SYNERGY