New Bowel Prep Superior With Half the Volume

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BERLIN — A new bowel-cleansing formula was more effective and had better patient acceptance than did a conventional bowel-preparation solution in a controlled study with 356 patients.

The Moviprep formulation of polyethylene glycol, ascorbic acid, and other electrolytes was rated substantially higher for colon cleansing than was the comparator,

Fleet Phospho-soda, while also cutting in half the volume of liquid required during the prep. Moviprep needed at least 2 L of water, compared with a minimum of 4 L with the Fleet prep, Dr. Christian Ell said at the 14th United European Gastroenterology Week.

"This is a milestone for colon-cancer screening," said Dr. Ell, a gastroenterologist at Dr. Horst Schmidt Hospital in Wiesbaden, Germany.

But Dr. Ralf Kiesslich, chief of en-

(Table 3 continued)

doscopy at the Johannes Gutenberg University Mainz (Germany), was more cautious, suggesting that the superiority of Moviprep should be confirmed in a second

He was skeptical of the Fleet prep's performance in the study, because it usually doesn't seem so ineffective. But the results do suggest that Moviprep is at least as good and easier to use, Dr. Kiesslich said in an interview.

The study investigators randomized

people who were undergoing screening colonoscopy at any of 12 German centers to treatment using either the Moviprep preparation or the Fleet regimen on a two-to-one basis.

The study was sponsored by Norgine, a German company that markets Moviprep in the United Kingdom. In August, Moviprep received marketing approval from the Food and Drug Administration. Sales by the U.S. licensee, Salix Pharmaceuticals Inc., are scheduled to start before the end of 2006.

The 242 people who used Moviprep and the 114 who received a Fleet prep were similar by gender and by average age and weight.

The quality of the bowel prep was rated by the gastroenterologist for each case, as well as on a blinded basis by a second gastroenterologist from a study panel.

Bowel appearance was scored on a scale

The superiority of Moviprep was consistent in every segment of the colon, and the incidence of adverse effects was similar to that seen with Fleet Phospho-soda.

of 0-4, in which 4 corresponded to completely empty clean, 3 meant that clear liquid remained in the colon, and a 2 indicated patches of brown liquid or semisolid stool. Each of the cases was scored for each of five seg-ments of the

colon: ascending, transverse, descending, sigmoid, and rectum.

In addition, every case was rated for efficacy as a function of the score in each of the five segments. An A rating meant a score of 4 or 3 in each segment; a B rating meant at least one score of 2; a C meant at least one score was 1; and a D rating meant that at least one score was 0.

Experts rated results as A or B for 93% of participants in the Moviprep group (20% received an A and 73% got a B); individual gastroenterologists gave an A or B to 95%, Dr. Ell reported.

In the Fleet prep group, experts rated the results as A or B for 23%, and participating physicians gave these grades to 46% of patients, which were significantly lower rates than those in the Moviprep group. The superiority of Moviprep was consistent in every segment of the colon, Dr. Ell reported.

The incidence of adverse effects, such as malaise, nausea, and abdominal pain, was similar in the two subgroups. The taste of Moviprep was rated acceptable, and 88% of patients said that they were willing to take it again, compared with a 78% rate in the people treated with the comparator regimen. Three-quarters of the people using Moviprep said that they had no problems drinking the entire 2 liters, he said.

People who had the Moviprep regimen were able to continue eating their usual diet until the evening before their colonoscopy. In contrast, people who use a conventional bowel prep have to fast the entire day before their procedure.

CHANTIX (varenicline) TABLETS

PRECAITIONS

General Nausea was the most common adverse event associated with CHANTIX treatment. Nausea was generally described as mild or moderate and often transient; however, for some subjects, it was persistent over several months. The incidence of nausea was dose-dependent. Initial dose-tilitation was beneficial in reducing the occurrence of nausea. Nausea was reported by approximately 30% of patients treated with CHANTIX 1 mg BID after an initial week of dose titration. In patients taking CHANTIX 0.5 mg BID, the incidence of nausea was 16% following initial titration. Approximately 3% of subjects treated with CHANTIX 1 mg BID in studies involving 12 weeks of treatment discontinued treatment prematurely because of nausea. For patients with intolerable nausea, dose reduction should be considered. Effect of smoking reseation: Physiological changes resulting from smoking cessation, with or without treatment with CHANTIX, may after the pharmacokinetics or pharmacodynamics of some drugs, for which dosage adjustment may be necessary (examples include theophylline, warfarin and insulin).

Drug Interactions Based on varenicline characteristics and clinical experience to date, CHANTIX has no clinically meaningful pharmacokinetic drug interactions (See Full Prescribing Information, CLINICAL PHARMACOU.GCY, Drug-Drug Interactions) in the research of the contractive properties of the contractive contractive

pharmacokinetic drug interactions (See Full Prescribing Information, CLINICAL PHARMACOU.OEY, Drug-Drug Interactions).

Carcinogenesis, Mutagenesis, Impairment of Fertility Carcinogenesis. Lifetime carcinogenicity studies were performed in CD-1 mice and Sprague-Dawley rats. There was no evidence of a carcinogenic effect in mice administered varenicline by oral gavage for 2 years at doses up to 20 mg/kg/day (47 times the maximum recommended human daily exposure based on AUC). Rats were administered varenicline (1, 5, and 15 mg/kg/day) by oral gavage for 2 years. In malie rats (n = 65 per sex per dose group), incidences of hibernoma (tumor of the brown fat) were increased at the mid dose (1 tumors, 5 mg/kg/day, 35 times the maximum recommended human daily exposure based on AUC) and maximum dose (2 tumors, 15 mg/kg/day, 67 times the maximum recommended human daily exposure based on AUC). The clinical relevance of this finding to humans has not been established. There was no evidence of carcinogenicity in female rats.

Mutagenesis & Vernicina was not expostrey; with complete in the following assess; Ames bacterial mutation assess:

Mutagenesis. Varenicline was not genotoxic, with or without metabolic activation, in the following assays: Ames bacterial mutation assay; mammalian CHO/HGPRT assay; and tests for cytogenetic aberrations in vivo in rat bone marrow and in vitro in human lymphocytes.

Impairment of fertility. There was no evidence of impairment of fertility in either male or female Syrague-Dawley rists administered varenicine succinate up to 15 mg/kg/day (67 and 36 times, respectively, the maximum recommended human daily exposure based on AUC at 1 mg BID). However, a decrease in fertility was noted in the offspring of pregnant rats who were administered varenicine succinate at an oral dose of 15 mg/kg/day (36 times the maximum recommended human daily exposure based on AUC at 1 mg BID). This decrease in fertility in the offspring of treated female rats was not evident at an oral dose of 3 mg/kg/day (9 times the maximum recommended human daily exposure based on AUC at 1 mg BID). This decrease in

fertitity in the offspring of treated female rats was not evident at an oral dose of 3 mg/kg/day (9 times the maximum recommended human daily exposure based on AUC at 1 mg BID).

Pregnancy Pregnancy Category C. Varenicline succinate was not teratogenic in rats and rabbits at oral doses up to 15 and 30 mg/kg/day, respectively (36 and 50-times the maximum recommended human daily exposure based on AUC at 1 mg BID, respectively). Nonteratogenic effects Varenicline succinate has been shown to have an adverse effect on the fets in aminal reproduction studies. Administration of varenicline succinate has been shown to have an adverse effect on the fets in aminal reproduction studies. Administration of varenicline succinate has not evident following treatment with 10 mg/kg/day (23 times the maximum recommended daily human exposure based on AUC. In addition, in the offspring of pregnant rats treated with varenicline succinate there were decreases in fertility and increases in auditory startle response at an oral dose of 15 mg/kg/day (36 times the maximum recommended during negnancy only if the potential benefit justifies the potential risk to the fetus. Nursing mothers: Although it is not known whether this drug is excreted in human milk, animal studies have demonstrated that varenicline can be transferred to nursing pups. Because many drugs are excreted in human milk, animal studies have demonstrated that varenicline can be transferred to nursing pups. Because many drugs are excreted in human milk, animal studies have demonstrated that varenicline can be transferred to nursing pups. Because many drugs are excreted in human milk, animal studies have demonstrated that varenicline can be transferred to nursing pups. Because many drugs are excreted in human milk, animal studies have demonstrated that varenicline can be transferred to nursing pups. Because of CHANTIX in pediatric patients have not been established; therefore, CHANTIX is not recommended for use in patients to discontinue nursing or to discontinue the drug, ta

Information for Patients:

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 Patients should be instructed to set a date to quit smoking and to initiate CHANTIX treatment one week before the quit date.

 Patients should be advised that CHANTIX should be taken after eating, and with a full glass of water.

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 Patients should be instructed how to titrate CHANTIX, beginning at a dose of 0.5 mg/day. Prescribers should explain that one 0.5 mg tablet should be taken ain the tevening.

 Patients should be beare aday for the first tree days, and that for the next four days, one 0.5 mg tablet should be taken in the morning and one 1 mg tablet in the wening.

 Patients should be advised that, after the first seven days, the dose should be increased to one 1 mg tablet in the morning and one 1 mg tablet in the wening.

 Patients should be informed that nausea and insomnia are side effects of CHANTIX and are usually transient; however, patients should be advised that if they are persistently troubled by these symptoms, they should notify the prescribing physician so that a dose reduction can be considered.

 Patients should also be provided with educational materials and necessary counseling to support an attempt at quitting smoking.

 Patients should be informed that some medications may require dose adjustment after quitting smoking.

 Patients is founding to become pregnant or planning to breast-feed an infant should be advised of the risks of smoking and risks and benefits of smoking essation with CHANTIX.

ADVERSE REACTIONS

During the premarketing development of CHANTIX, over 4500 individuals were exposed to CHANTIX, with over 450 treated for at least 24 weeks and approximately 100 for a year. Most study participants were treated for 12 weeks or less. In Phase 2 and 3 placebo-controlled studies, the treatment of its properties of the treatment of this group, the discontinuation rate of the months' treatment. In this group, the discontinuation rates for the most command of 10 fb% for placebo in studies of three months' treatment. In this group, the discontinuation rates for the most commanderes events in CHANTIX treated patients were as follows: nausea (3% vs. 0.5% for placebo), hadadache (0.6% vs. 0.9% for placebo), insomnia (1.2% vs. 1.1% for placebo), and abnormal dreams (0.3% vs. 0.2% for placebo). Adverse Events were categorized using the Medical Dictionary for Regulatory Activities (MedDRA, Version 7.1).

The most common adverse events associated with CHANTIX (>5% and twice the rate seen in placebo-treated patients) were nausea, sleep disturbance, constipation, flatulence, and vomiting. Smoking cessation, with or without treatment, is associated with nicotine withdrawal symptoms

windrawal symptoms.

The most common adverse event associated with CHANTIX treatment is nausea. For patients treated to the maximum recommended dose of 1 mg BID following initial dosage titration, the incidence of nausea was 30% compared with 10% in patients taking a comparable placebor regimen. In patients taking CHANTIX 0.5 mg BID following initial titration, the incidence was 16% compared with 11% for placebo. Nausea was generally described as mild or moderate and often transient; however, for some subjects, it was persistent throughout the treatment period.

persistent throughout the treatment period.

Table 3 shows the adverse events for CHANTIX and placebo in the 12 week fixed dose studies with titration in the first week (Studies 2 (titrated arm only), 4, and 5). MedDRA High Level Group Terms (HLGT) reported in ≥ 5% of patients in the CHANTIX 1 mg BID dose group, and more commonly than in the placebo group, are listed, along with subordinate Preferred Terms (PT) reported in ≥ 1% of CHANTIX patients (and at least 0.5% more frequent than placebo). Closely related Preferred Terms such as 'Insomnia', 'Initial insomnia', 'Indide insomnia', 'Early morning awakening' were grouped, but individual patients reporting two or more grouped events are only counted once.

Table 3: Common Treatment Emergent AEs (%) in the Fixed-Dose, Placebo-Controlled Studies (≥1% in the 1 mg RID CHANTIX Group, and 1 mg RID CHANTIX at least 0.5% mays than Placebo\

SYSTEM ORGAN CLASS High Level Group Term	CHANTIX 0.5 mg BID	CHANTIX 1mg 1mg BID	Placebo
Preferred Term	N=129	N=821	N=805
GASTROINTESTINAL			
GI Signs and Symptoms			
Nausea	16	30	10
Abdominal Pain*	5	7	5
Flatulence	9	6	3
Dyspepsia	5	5 5	3
Vomiting	1	5	2
GI Motility/Defecation Conditions			
Constipation	5	8	3
Gastroesophageal reflux disease	1	1	0
Salivary Gland Conditions			
Dry mouth	4	6	4

PSYCHIATRIC DISORDERS			
Sleep Disorders/Disturbances			
Insomnia**	19	18	13
Abnormal dreams	9 2 2	13	5 3
Sleep disorder	2	5	
Nightmare	2	1	0
NERVOUS SYSTEM			
Headaches			
Headache	19	15	13
Neurological Disorders NEC			
Dysgeusia	8	5	4 2
Somnolence	3	3	2
Lethargy	2	1	0
GENERAL DISORDERS			
General Disorders NEC			
Fatigue/Malaise/Asthenia	4	7	6
RESPIR/THORACIC/MEDIAST			
Respiratory Disorders NEC			
Rhinorrhea	0	1	0
Dyspnoea	2	1	1
Upper Respiratory Tract Disorder	7	5	4
SKIN/SUBCUTANEOUS TISSUE			
Epidermal and Dermal Conditions			
Rash	1	3	2
Pruritis	0	1	1
METABOLISM & NUTRITION			

* Includes PTs Abdominal (pain, pain upper, pain lower, discomfort, tendemess, distension) and Stomach discomfort
** Includes PTs Insomnia/Initial insomnia/Middle insomnia/Early morning awakening

** Includes PTs Insomnia/Initial insomnia/Middle insomnia/Early morning awakening.

The overall pattern, and the frequency of adverse events during the longer-term trials was very similar to that described in Table 3, though several of the most common events were reported by a greater proportion of patients. Nausea, for instance, was reported in 40% of patients treated with CHANTIX 1 mg BID in a one-year study, compared to 8% of placebo-treated patients. Following is a list of treatment-emergent adverse events reported by patients treated with CHANTIX during all clinical trials. The listing does not include those events already listed in the previous tables or elsewhere in labeling, those events for which adrug cause was remote, those events where so general as to be uniformative, and those events for which adrug cause was remote, those events where were so general as to be uniformative, and those events for which adrug cause was remote, those events where the probability of being acutely life-threatening, BLODO AND LYMPHATIC SYSTEM DISORDERS. Infrequent Anemia, Lymphadenopathy. Rare. Leukocytosis, Thrombocytopenia, Splenomegaly, CARDIAC DISORDERS. Infrequent Angina pectoris, Arrhythmia, Bradycardia, Ventricular extrasystoles, Myocardia Infraction, Paliptations, Tachycardia. Rare. Attral fibrillation, Cardiac flutter, Coronary artery disease, Cor pulmonale, Acute coronary syndrome. ERA RND LABYRINTH DISORDERS. Infrequent Trinitius, Verligo. Rare. Deafness, Meniere's disease. EMDOCRINE DISORDERS. Infrequent Trinitius, Verligo. Rare. Deafness, Meniere's disease. EMDOCRINE DISORDERS. Infrequent Trinitius, Verligo. Rare. Deafness, Meniere's disease. EMDOCRINE DISORDERS. Infrequent Trinitius, Verligo. Rare. Deafness, Meniere's disease. EMDOCRINE DISORDERS. Infrequent Trinitius, Propried Disorders. Proposition, Verligor Disorders, Verligor DRUG ARUSE AND DEPENDENCE

DIUG ABUSE AND DEPENDENCE

Controlled Substance Class Varenicline is not a controlled substance. Humans: Fewer than 1 out of 1000 patients reported euphoria in clinical trials with CHANTIX. At higher doses (greater than 2 mg), CHANTIX produced more frequent reports of gastrointestinal disturbances such as nausea and vomiting. There is no evidence of dose-escalation to maintain therapeutic effects in clinical studies, which suggests that locarance dose not develop. Abrupt discontinuation of CHANTIX was associated with an increase in irritability selep disturbances in up to 3% of patients. This suggests that, in some patients, varenicline may produce mild physical dependence which is not associated with addiction. In a human laboratory abuse liability study, a single oral dose of 1 mg varenicline did not produce any significant positive or negotive subjective responses in somes. In non-smokers, 1 mg varenicline produced an increase in some positive subjective effects, but this was accompanied by an increase in negative adverse effects, especially nausea. A single oral dose of 3 mg varenicline uniformly produced unpleasant subjective responses in both smokers and non-smokers. Animals: Studies in rodetts have shown that varenicline produces behavioral responses similar to those produced by pinotine. In rats trained to discriminate nicotine from saline, varenicline produced full generalization to the nicotine cue. In self-administration studies, the degree to which varenicline from saline, varenicline produced full generalization to the nicotine cue. In self-administration studies, the degree to which varenicline from saline, varenicline produced full generalization to the nicotine cue. In self-administration studies, the degree to which varenicline from saline, varenicline produced full generalization to the nicotine response to self-administration response in notion is dependent upon the requirement of the task. Rats trained to discriminate nicotine unfer nicotine self-administration.

OVERDOSAGE

To case of overdose, standard supportive measures should be instituted as required. Varenicline has been shown to be dialyzed in patients with end stage renal disease (see Full Prescribing Information, CLINICAL PHARMACOLOGY, Pharmacokinetics, Pharmacokinetics in Special Patient Populations), however, there is no experience in dialysis following overdose. DOSAGE AND ADMINISTRATION

Usual Dosage for Adults Smoking cessation therapies are more likely to succeed for patients who are motivated to stop smoking and who are provided additional advice and support. Patients should be provided with appropriate educational materials and counseling to support the quit attempt. The patient should set a date to stop smoking. CHANTIX dosing should start one week before this date. CHANTIX should be taken after eating and with a full glass of water. The recommended dose of CHANTIX is 1 mg twice daily following a 1-week titration as follows:

Days 1-3:	0.5 mg once daily
Days 4-7:	0.5 mg twice daily
Days 8-End of treatment:	1 mg twice daily

Patients who cannot tolerate adverse effects of CHANTIX may have the dose lowered temporarily or permanently. Patients should be treated with CHANTIX for 12 weeks. For patients who have successfully stopped smoking at the end of 12 weeks, an additional course of 12 weeks treatment with CHANTIX is recommended to further increase the likelihood of long-term abstinence. Patients who do not succeed in stopping smoking during 12 weeks of initial therapy, or who relapse after treatment, should be encouraged to make another attempt once factors contributing to the failed attempt have been identified and addressed.

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Special Populations

Patients with impaired renal function No dosage adjustment is necessary for patients with mild to moderate renal impairment. For patients with severe renal impairment, the recommended starting dose of CHANTIX is 0.5 mg once daily. Patients may then titrate as needed to a maximum dose of 0.5 mg twice a day. For patients with End-stage renal disease undergoing hemodialysis, a maximum dose of 0.5 mg once daily may be administered if tolerated well (See Full Prescribing Information, CLINICAL PHARMACOLOGY, Pharmacokinetics, Pharmacokinetics in Special Populations, Renal impairment). Dosing in elderly patients and patients with impaired hepatic function No dosage adjustment is necessary for patients with hepatic impairment. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function (See PRECAUTIONS, Geriatric Use). Use in children Safely and effectiveness of CHANTIX in pediatric patients have not been established; therefore, CHANTIX is not recommended for use in patients under 18 years of age.

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