Red Flags Mark Progression to Crohn's Disease

BY BETSY BATES

Los Angeles Bureau

Los Angeles — Anumber of clinical, laboratory, and serologic "red flags" may distinguish patients with ulcerative colitis who will progress to a diagnosis of Crohn's disease, researchers reported at the annual Digestive Disease Week.

Dr. Gil Y. Melmed and his associates at the Inflammatory Bowel Disease Center at Cedars-Sinai Medical Center and the University of California, Los Angeles, designed a nested case-control study to compare 21 patients whose diagnosis evolved into Crohn's disease with two groups of age-matched controls: 52 patients with simple ulcerative colitis and 56 patients with Crohn's disease.

Patients whose disease progressed were more likely than other ulcerative colitis patients to have extensive colonic involvement at diagnosis and a positive C Bir1 serology. In addition, they had an increased likelihood of having two or more red flags at initial presentation, including:

- ▶ Weight loss of more than 10% of body
- ▶ Nonbloody diarrhea.
- ► Family history of Crohn's disease in at least one first-degree relative.
- ▶ Oral ulceration.
- ► Active smoking.
- ▶ Upper GI symptoms.
- ► History of blood transfusion.
- ▶ Perianal disease.

Table 3. Adverse Events Reported in Controlled Clinical Trials in at Least 2% of Patients

Body System/Adverse Event	Placebo (n=355)	ARICEPT® (n=747)	
Percent of Patients with any Adverse Event	72	74	
Body as a Whole			
Headache	9	10	
Pain, various locations	9 8	9	
Accident	6 3	7	
Fatigue	3	5	
Cardiovascular System			
Syncope	1	2	
Digestive System			
Nausea	6	11	
Diarrhea	6 5 3 2	10	
Vomiting	3	5	
Anorexia	2	4	
Hemic and Lymphatic System			
Ecchymosis	3	4	
Metabolic and Nutritional Systems			
Weight Decrease	1	3	
Musculoskeletal System			
Muscle Cramps	2 1	6	
Arthritis	1	2	
Nervous System			
Insomnia	6	9	
Dizziness	6	8	
Depression	<1	8 3 3 2	
Abnormal Dreams	0	3	
Somnolence	<1	2	
Urogenital System			
Frequent Urination	1	2	

Frequent Urination 1 2

Other Adverse Events Observed During Clinical Trials ARICEPT® has been administered to over 1700 individuals during clinical trials workwide. Approximately 1200 of these patients have been treated for at least 3 months and more than 1000 patients have been treated for at least 3 months. Controlled and uncontrolled trials in the United States included approximately 900 patients. In regards to the highest dose of 10 mg/day, this population includes 660 patients treated for 3 months, 475 patients treated for 6 months and 116 patients treated for over 1 year. The range of patient exposure is from 1 to 1214 days. Treatment emergent signs and symptoms that occurred during 3 controlled clinical trials and two open-label trials in the United States were recorded as adverse events by the clinical investigators using terminology of their own choosing. To provide an overall estimate of the proportion of individuals having similar types of events, the events were grouped into a smaller number of standardiced categories using a modified OCDSTART dictionary and event frequencies were calculated across all studies. These categories are used in the listing below. The frequencies represent the proportion of 900 patients from these trials who experienced that event while receiving ARICEPT® All adverse events cocurring at least twice are included, except for those already listed in Tables 2 or 3. COSTART terms to openeral to be informative, or events less likely to be drug caused. Events are classified by body system and listed using the following definitions: *frequent adverse events*—those occurring in at least 1/100 patients; *infrequent adverse* who experienced that event while receiving ARICEPT® All adverse events occurring at least twice are included, except for those already listed in Tables 2 or 3, COSTART terms too general to be informative, or events less likely to be drug caused. Events are classified by body system and listed using the following definitions: *frequent adverse events*—those occurring in all teast 1/100 patients. *Integraent adverse events*—those occurring in 1/100 to 1/1000 patients. These adverse events are not necessarily related to ARICEPT® treatment and in most cases were observed at a similar frequent; in pleasbo-treated patients in the controlled studies. No important additional adverse events were seen in studies conducted outside the United States. Body as a Whote: *Frequent*: influenza, chest pain; toothache, infrequent event were seen in studies conducted outside the United States. Body as a Whote: *Frequent*: influenza, chest pain; toothache, infrequent event seen in studies conducted outside the United States. Body as a Whote: *Frequent*: influenza, chest pain; toothache, infrequent event event was a conducted outside the United States. Body as a Whote: *Frequent*: influenza, chest pain; toothache, infrequent event event event event has a proposed and a state of the proposed and the adverse events temporally associated with ARICEPT® that have been received since market introduction that are not listed above, and that there is inadequate data to determine the causal relationship with the drug include the following: abdominal pain, agliation, cholosystic, contusion, convolusions, hallowing cannot have a continuous provided and the provided a and 10 mg administered once per day. The higher dose of 10 mg did not provide a statistically significantly greater clinical benefit than 5 mg. There is a suggestion, however, based upon order of group mean scores and dose trend analyses of data from these clinical benefit that a daily dose of 10 mg of ARICEPT® might provide additional benefit for some patients. Accordingly, whether or not to employ a dose of 10 mg is a matter of prescriber and patient preference. Evidence from the controlled trials indicates that the 10 mg dose, with a one week titterion, it liefly to be associated with a higher incidence of cholinergic adverse events than the 5 mg dose. In open label trials using event that the femiliant of the preference is the incidence of untoward effects may be influenced by the rate of dose escalation, treatment with a destination, and the contemplated until patients have been on a daily dose of 5 mg for 4 to 6 weeks. ARICEPT® ODT should be taken in the evening, just prior to retiring. ARICEPT® ODT can be taken with or without food. Allow ARICEPT® ODT tablet to dissolve on the tongue and follow with water.

ARICEPT® (Donepezil Hydrochloride Tablets)

ARICEPT® ODT (Donepezil Hydrochloride) Orally Disintegrating Tablets
Bird Summay—see package insert for full prescribing information. NIDICATIONS AND USAGE ARICEPT® is indicated for the
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Table 1. Most Frequent Adverse Events Leading to Withdrawal from Controlled Clinical Trials by Dose Group					
Dose Group	Placebo	5 mg/day ARICEPT®	10 mg/day ARICEPT®		
Patients Randomized Event/% Discontinuin		350	315		

Patients Randomize Event/% Discontinui		350	315
Nausea	1%	1%	3%
Diarrhea	0%	<1%	3%
Vomiting	<1%	<1%	2%

Most Frequent Adverse Clinical Events Seen in Association with the Use of ARICEPT® The most common adverse Most Frequent Adverse Clinical Events Seen in Association with the Use of ARICEPT® The most common adverse events, defined as those occurring al a frequency of all leads 5% in patients receiving 10 mg/day and whice the placebor rate, are largely predicted by ARICEPT® 's cholinomimetic effects. These include nausea, diarrhea, insomnia, vomiting, muscle cramp, tatigue and anorexia. These adverse events were often of mild intensity and transient, resolving during continued ARICEPT® treatment within the need for dose modification. There is evidence to suggest that the frequency of these common adverse events may be affected by the rate of titration. An open-label study was conducted with 269 patients who received placebo in the 15 and 30-week studies. These patients were littrated to a dose of 10 mg/day over a 6-week period. The rates of common adverse events were lower than those seen in patients that the trade of the patients with the comparable to those seen in patients with the patients

Table 2. Comparison of Rates of Adverse Events in Patients Titrated to 10 mg/day Over 1 and 6 Weeks

Adverse Event	No tit Placebo (n=315)	ration 5 mg/day (n=311)	One week titration 10 mg/day (n=315)	Six week titration 10 mg/day (n=269)	
Nausea	6%	5%	19%	6%	
Diarrhea	5%	8%	15%	9%	
Insomnia	6%	6%	14%	6%	
Fatigue	3%	4%	8%	3%	
Vomiting	3%	3%	8%	5%	
Muscle cramps	2%	6%	8%	3%	
Anorexia	2%	3%	7%	3%	

or clinical trais in a finginy Selected patient population in aduct clinical platatice in in rotal clinical tests are graph, as the conditions of use, reporting behavior, and the kinds of patients treated may differ. Table 3 lists treatment emergent signs and symptoms that were reported in at least 2% of patients in placebo-controlled trials who received ARICEPT® and for which the rate of occurrence was greater for ARICEPT® assigned than placebo assigned patients. In general, adverse events occurred more frequently in female patients and with advancing age.



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► Elevated C-reactive protein level. ► Hypoalbuminemia.

► Thrombocytosis.

▶ Non–H. pylori gastritis.

Other red flags included Crohn's disease-associated serologies, including ASCA IgA, ASCA IgG, anti-0mp-C, and anti-12.

A multivariate logistic regression analysis found three red flags that independently raised the odds of an ulcerative colitis patient progressing to the more serious diagnosis of Crohn's disease. These were nonbloody diarrhea at presentation (odds ratio, 23.5), weight loss (odds ratio, 12.4), and a positive C Bir1 serology (odds ratio, 6).

Nearly half of the patients who went on to develop Crohn's disease had pancolitis at initial colonoscopy, and two had an inflammatory condition of the ileum, "back-

None of the control patients with ulcer-

'Initial disease presentation seems to be very indicative ... of a change in diagnosis, and we are beginning to learn about the role serology has to play.'

ative colitis had total colonic involvement, and just 9 of 52 had pancolitis. The majority had left-sided involvement or proctitis.

Although "red flags" were present in all patients who went on to develop Crohn's disease,

length of time to a change in diagnosis was variable, ranging from 6 months to 17 years, with a mean of 4 years, Dr. Melmed noted in his poster presentation.

In an interview after the meeting, he said members of his group were surprised by the strength of the associations they identified, despite the small sample size.

'Something about the initial disease presentation seems to be very indicative in our cohort of a change in diagnosis, and we are beginning to learn about the role serology has to play in these patients as well," he said.

He advocated a further work-up of patients with ulcerative colitis who have these features, particularly if they are not responding to conventional therapy, considering surgery, or being considered for enrollment in a clinical trial.

An appropriate work-up would include colonoscopy with ileoscopy (if not previously performed), a small bowel series with barium, or CT, MR enterography, capsule endoscopy, or upper endoscopy.

Another issue that came up in our study was that many people with ulcerative colitis had been diagnosed on the basis of a flexible sigmoidoscopy rather than a complete colonoscopy, which could potentially identify Crohn's disease. We had to exclude these patients, who may have been misdiagnosed from the outset of their disease course," Dr. Melmed said.

The study was sponsored by the International Organization for the Study of Inflammatory Bowel Disease and a grant from the National Institutes of Health.