## Response of AS to Etanercept Maintained at 2 Years

BY NANCY WALSH New York Bureau

SAN ANTONIO — The clinical safety and efficacy of etanercept persist for more than 2 years in patients with active ankylosing spondylitis, according to the results of an open-label extension study.

Among 26 patients who entered the open, observational phase following a 12week blinded study, 21 have continued with etanercept, 25 mg twice weekly, for an additional 102 weeks, Xenofon Baraliakos, M.D., said at the annual meeting of the American College of Rheumatology.

Response was evaluated according to a core set of end points proposed by the Assessments in Ankylosing Spondylitis (ASAS) working group. These included the Bath AS Disease Activity Index (BAS-DAI) and the ASAS 40, which represents a 40% improvement in several disease domains such as pain, function, and inflam-

The primary end point was an improvement of 50% or more on the BAS-DAI, a 10-point visual analog scale that assesses fatigue, spinal pain, peripheral arthritis, enthesitis, and morning stiffness.

At 102 weeks, an intent-to-treat analysis of all 26 patients indicated that 54% maintained both a BASDAI 50% response and an ASAS 40. At week 54, the corresponding percentages were 58% and 62%, said Dr. Baraliakos, who is of the department of rheumatology, Benjamin Franklin Hospital, Free University Berlin.

An analysis that included only the 21 study completers also found that disease activity improved significantly, with a mean BASDAI score of 2.7 at week 102. The baseline BASDAI score in this group of patients had been 6.3, on a 0-10 scale, with 10 being the most severe, Dr. Baraliakos said in a poster session.

The mean C-reactive protein level at week 102 was 5 mg/dL, and the mean erythrocyte sedimentation rate was 9 mg/dL, which represented significant improvements over baseline levels, which had been 15.3 and 22.8, respectively. Similar improvements also were seen on the Bath AS functional and mobility indexes.

This study differed from previous investigations of etanercept in AS in that no concomitant corticosteroids or disease-modifying antirheumatic drugs (DMARDs) were permitted. In an earlier study, 40 patients were treated with the tumor necrosis factor-α blocking agent but were allowed to continue other medications (N. Engl. J. Med. 2002;346:1349-56).

In an interim analysis, the authors of this latest study noted that it was important to evaluate etanercept alone (Arthritis Rheum. 2003;48:1667-75).

Pain in Elderly

For Depression

Washington — The presence of pain

in older adults is a significant risk factor for

clinical depression, Stephen Harkins,

Ph.D., said at the annual meeting of the

life in older persons across cultures, said Dr. Harkins, professor in the departments of gerontology, psychiatry, and biomedical engineering at Virginia Commonwealth

He reviewed data on 2,900 adults (mean age 75 years) from the National Health and Nutrition Examination Survey and 2,081 adults (mean age 78 years) from the

Australian Longitudinal Study on Aging. Both studies included data on muscu-

loskeletal pain, including swollen joints

States (9.3) and Australia (8.2). Overall, 47% of the adults surveyed reported pain

in the past week, and the risk of depression was independently related to the presence, type, and number of musculoskeletal prob-

lems. In addition, reports of pain more than doubled an individual's risk for exceeding

a score of 20 on the CES-D-the cutoff

point for clinical depression.

and hip, back, knee, and neck pain. Mean scores on the Center for Epidemiologic Studies-Depression (CES-D) scale were similar for older adults in the United

Gerontological Society of America. Poorly managed pain lowers quality of

University in Richmond.

A Risk Factor

## EVOXAC® Capsules (cevimeline hydrochloride)

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Body as a Whole Disorders: aggravated allergy, precordial chest pain, abnormal crying, hematoma, leg pain, edema, periorbital edema, activated pain trauma, pallor, changed sensation to temperature, weight decrease, weight increase, choking, mouth eder syncope, malaise, face edema, substemal chest pain.

hypertension

Digestive Disorders: appendicitis, increased appetite, ulcerative colitis, diverticulitis, duodenitis, dysphagia, enterocolitis, booled syndrome, melira, mucosolitis, esoplageal shirtune, esoplagiis, cori almenoritage, peptic ulcer, periodotala destruct all sidencies, unantisis, interessus, tongene discolaration, tongene sidencife, goographic frompe, tongene ulceration, dental car Endocrine Disorders: increased glucocorricoids, golet hypothyroidism

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ologic Disorders: thrombocytopenic purpura, thrombocythemia, thrombocytopenia, hypochromic anemia, eos cytopenia, leucopenia, leukocytosis, cervical lymphadenopathy, lymphadenopathy

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ms: basal cell carcinoma, squamous carcinoma

Mervous Disorders: carpal tunnel syndrome, coma, ahornema coordination, dysesthesia, dyskinesia, dyski

ologic Disorders: aggravated rheumatoid arthritis, lupus erythematosus rash, lupus erythematosus syndrome

Special Senses Disorders: deafness, decreased hearing, motion sickness, parosmia, taste perversion, blepharitis, cataract, corneal opacity, corneal ulceration, diplopia, glaucoma, anterior chamber eye hemorhage, keratifis, keratoconjunctivitis, mydriasi myopia, photopsia, retinal deposite, retinal disorder, scleritis, viterous detachment, timologia, retinal disorder, scleritis, viterous detachment, timologia, retinal disorder, scleritis, viterous detachment, timologia.

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In one subject with lupus erythematosus receiving concomitant multiple drug therapy, a highly elevated ALT level was noted afte the fourth week of cevimeline therapy. In two other subjects receiving cevimeline in the clinical trials, very high AST levels were noted. The significance of these findings is unknown.

Additional adverse events (relationship unknown) which occurred in other clinical studies (patient population different from Sjögren's patients) are as follows:

DOSAGE AND ADMINISTRATION: The recommended dose of cevimeline hydrochloride is 30 mg taken three times a day. There is insufficient safely information to support doses greater than 30 mg tid. There is also insufficient e

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herid Summary
Consult package insert for full prescribing information.
INDICATIONS AND USAGE: Cevimeline is indicated for the treatment of symptoms of dry mouth in patients with Sjögren's

OCNTRAINDICATIONS: Cevimeline is contraindicated in patients with uncontrolled asthma, known hypersensitivity to cevimeline and when miosis is undesirable, e.g., in acute iritis and in narrow-angle (angle-closure) glaucoma.

and when missis is undestrable, e.g., in acute initis and in narrow-ingle (angie-cosure) gaucona.

WARNINGS.

Cardiovascular Disease: Cevimeline can potentially alter cardiac conduction and/or heart rate. Patients with significant cardiovacular diseases may operate high be unable to compensate for transmirer changes in henodymismics or rightmi induced by EVIXXA<sup>OB</sup>

EVIXXA<sup>OB</sup> should be used with caution and under close medical supervision in patients with a history of cardiovascular disease evidenced by anging pectrol or importational infarction.

Palmonary Disease: Cevimeline can potentially increase airway resistance, bronchial smooth muscle tone, and bronchial secretions. Ceriminal insult of administeration with cardiom and with color medical supervision to patients with controlled asthma, chronic bronchitis, or chronic obstructive pulmonary disease.

Ocular: Ophthalmic formulations of muscarinic agonists have been reported to cause visual blurring which may result in decreased visual acuity, especially at night and in patients with central fens changes, and to cause impairment of depth perceptior Caution should be advised while driving at night or performing hazardous activities in reduced lighting.

PRECAUTIONS:
General: Cereimeline toxicity is characterized by an exaggeration of its parasympathomimetic effects. These may include: headache, visual disturbance, lacrimation, sweating, respiratory distress, gastrointestinal spasm, nausea, vomiting, diarrhea, afrio-ventricular block, chuckpuratile, hardyacrida, hypotension, hypotension, shock, metal contusion, cardide arrhythmia, and tremors Cevimeline should be administered with caution to patients with a history of nephrolithiasis or cholelithiasis. Contractions of the gallibladder or billary smooth muscle could precipitate complications such as cholecystitis, cholangitis and billary obstruction. An increase in the ureteral smooth muscle tone could theoretically precipitate renal colic or ureteral reflux in patients with.

Information for Patients: Patients should be informed that cevimeline may cause visual disturbances, especially at night, that

If a patient sweats excessively while taking cevimeline, dehydration may develop. The patient should drink extra water and consult a health care provider.

Drug Interactions: Cevimeline should be administered with caution to patients taking beta adrenergic antagonists, because of the possibility of conduction disturbances. Drugs with parasympathomiemic effects administered concurrently with cevimeline can be expected to have additive effects. Overwhellen eight interfere with designabilitations can feet off soft or government of the property of the Drugs which hight CPV2DG and CPV2BAV4 also inhight the metabolism of cerimeline. Cevimeline should be used with caution in individuals known suspected to be defined in CPV2DG and/b, based on provious experience, as they may be at a higher high disvious of adverse events. In an in witnesstudy, cytochrome P450 isozymes 1A2, 2A6, 2C9, 2C19, 2D6, 2E1, and SA4 were not inhibited by exposure to exemine.

Carcinogenesis, Mutagenesis and Impairment of Fertility: Lifetime carcinogenicity studies were conducted in CD-1 mice and F-344 rats. A statistically significant increase in the incidence of adenocarcinomas of the uterus was observed in female rats that received overheime in a dosage of 100 mg/day/day (paproximately 8 times the maximum human exposure based on comparison of AUC data). No other significant differences in tumor incidence were observed in either mice or rats.

Devimeline exhibited no evidence of mutagenicity or clastogenicity in a battery of assays that included an Ames test, an *in vitro* htmosoomal aberration study in mammalian cells, a mouse lymphoma study in L5178Y cells, or a micronucleus assay conduct w who in ICR micro.

If you in Los Hide. Cernificial of an deversely affect the reproductive performance or fertility of male Sprague-Dawley rats when administ 63 days prior to mating and throughout the period of mating at dosages up to 45 mg/kgdby (approximately 5 times the recommended does for a 60 kg human Glowing normalization of the data on the basis of body surface are estimates). that were treated with ceyimient at dosages up to 45 mg/kg/dby from 14 days prior to mating through day seven of gest exhibited a statistically significantly smaller number of implications than did control naimals.

Pragnancy: Pregnancy Category C.

Cevimeline was associated with a reduction in the mean number of implantations when given to pregnant Sprague—Dawley rats
from 14 days prior to maning through day seven of gestation at a dosage of 45 mg/kg/day (approximately 5 times the maximum
recommended dose for a 60 kg human when compared on the basis of body surface area estimates). This effect may have been
secondary to material toxicly. There are no adequate and well-controlled studies in pregnant women, Cevimeline should be used
during pregnancy only if the potential benefit passifies the potential risk to the febru.

Marriage Moheres: It not known whether this drug is severed in human milk, Because many drugs are excreted in human milk
and Mecause of the potential or acrious adverse reactions in mursing infants from PEVDXAP<sup>2</sup>, a decision should be made whether
to discontinue mining or discontinue the fing. Itals just one account the importance of the drugs to the mother.

Pediatric Use: Stafely and effectiveness in pediatric patients have not been established.

Geratric User Anhough clinical studies of overwhelm included subjects over the age of 65, the numbers were not sufficient to
determine whether they respond officerably from younger subjects. Stage and 65, the numbers were not sufficient to
determine whether they respond officerably from younger subjects. Stage and 65, the numbers were not sufficient to
determine whether they respond officerably from younger subjects. Stage and 65, the numbers were not sufficient to
determine whether they respond officerably from younger subjects. The US. 200 patients reconstitute, and of concenitransfer from 15 mg to to 60 mg tid. of whom 93% were women and 7% were men. Demographic distribution was 90%
causaism. 5% "effects, and concenits with
cevimeline due to adverse events.

The following adverse events associated with muscarinic agonism were observed in the clinical trials of cevimeline in Sjögren's syndrome natients:

| Adverse Event                    | Cevimeline<br>30 mg (tid)<br>n*=533 | Placebo<br>(tid)<br>n = 164 | Adverse Event                 | Cevimeline<br>30 mg (tid)<br>n*=533 | Placebo<br>(tid)<br>n = 164 |
|----------------------------------|-------------------------------------|-----------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Excessive Sweating<br>Nausea     | 18.7%<br>13.8%                      | 2.4%<br>7.9%                | Urinary Frequency<br>Asthenia | 0.9%<br>0.5%                        | 1.8%                        |
| Rhinitis                         | 11.2%                               | 5.4%                        | Flushing                      | 0.3%                                | 0.6%                        |
| Diarrhea<br>Excessive Salivation | 10.3%                               | 10.3%                       | Polyuria                      | 0.1%                                | 0.6%                        |

\*n is the total number of natients exposed to the dose at any time during the study

| Adverse Event           | 30 mg (tid)<br>n*=533 | Placebo<br>(tid)<br>n = 164 | Adverse Event         | Cevimeline<br>30 mg (tid)<br>n*=533 | Placebo<br>(tid)<br>n = 164 |
|-------------------------|-----------------------|-----------------------------|-----------------------|-------------------------------------|-----------------------------|
| Headache                | 14.4%                 | 20.1%                       | Conjunctivitis        | 4.3%                                | 3.6%                        |
| Sinusitis               | 12.3%                 | 10.9%                       | Dizzìness             | 4.1%                                | 7.3%                        |
| Upper Respiratory       |                       |                             | Bronchitis            | 4.1%                                | 1.2%                        |
| Tract Infection         | 11.4%                 | 9.1%                        | Arthralgia            | 3.7%                                | 1.8%                        |
| Dyspepsia               | 7.8%                  | 8.5%                        | Surgical Intervention | 3.3%                                | 3.0%                        |
| Abdominal Pain          | 7.6%                  | 6.7%                        | Fatigue               | 3.3%                                | 1.2%                        |
| Urinary Tract Infection | 6.1%                  | 3.0%                        | Pain                  | 3.3%                                | 3.0%                        |
| Coughing                | 6.1%                  | 3.0%                        | Skeletal Pain         | 2.8%                                | 1.8%                        |
| Pharyngitis             | 5.2%                  | 5.4%                        | Insomnia              | 2.4%                                | 1.2%                        |
| Vomiting                | 4.6%                  | 2.4%                        | Hot Flushes           | 2.4%                                | 0.0%                        |
| Injury                  | 4.5%                  | 2.4%                        | Rigors                | 1.3%                                | 1.2%                        |
| Back Pain               | 4.5%                  | 4.2%                        | Anxiety               | 1.3%                                | 1.2%                        |
| Rash                    | 4 3%                  | 6.0%                        |                       |                                     |                             |

\*n is the total number of patients exposed to the dose at any time during the study

randomized, placebo-controlled study of cevimeline in Sjögren's syndrome patients with xero keratoconjunctivitis sicca. Arthritis Rheum. 2002;46:748-754.

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"The take-home message is that pain increases the probability of scoring high on a depression scale," said Dr. Harkins, who also is director of the psychophysiology and memory laboratory at the university.

—Heidi Splete