Ankylosing Spondylitis Score Shows Promise

BY MITCHEL L. ZOLER

COPENHAGEN — A new way to assess disease activity in ankylosing spondylitis patients showed good correlation with the Bath score and good responsiveness as patients improved with treatment in an analysis of 60 patients.

The Ankylosing Spondylitis Disease Activity Score (ASDAS) "seems like a promising new tool for assessing disease

activity and treatment response," Dr. Susanne J. Pedersen said at the annual European Congress of Rheumatology. But it needs further validation in larger numbers of patients, and further adjustment to more reliably assess patients with low or high levels of treatment response, said Dr. Pedersen, a rheumatologist at Herlev (Denmark) University Hospital. The ASDAS is based on five clinical elements: back pain, duration of morning

stiffness, patient's global assessment, peripheral pain and swelling, and serum level of C-reactive protein (Ann. Rheum. Dis. 2009;68:18-24).

To test correlations of the ASDAS with other assessment methods and to track its change with treatment, Dr. Pedersen and her associates used data from 60 AS patients collected as part of a Danish longitudinal study of AS, known as BIOSPA. The patients met the European Spondyloarthropathy Study Group criteria for spondyloarthritis, had sacroiliitis on MRI or x-ray, and had a BASDAI (Bath AS Disease Activity Index) greater than 30 despite treatment with an NSAID. Their average age was 40 years, 80% were men, and their average disease duration was 12 years. Their average ASDAS at baseline was 3.86, and their average BASDAI was 55.

About two-thirds (68%, or 41) of the patients received infliximab (Remicade), 13 (22%) got etanercept (Enbrel), and 6 (10%) got adalimumab (Humira). Patients were assessed at baseline, and after 22 and 46 weeks of treatment. A total of 53 of the 60 (88%) patients finished 22 weeks of treatment, and 47 (78%) completed 46 weeks of treatment.

Measurement of their ASDAS, BAS-DAI, and other measures of disease activity at baseline and after 22 weeks of treatment showed good correlation between the ASDAS and BASDAI scores. Among patients with a BASDAI greater than 40 at baseline, a change in the BASDAI of 20 (a common minimum criterion for improvement on treatment) correlated with a change in the ASDAS of 1.38. A change in the BASDAI of 50% (another common criterion for improvement) correlated with an AS-DAS improvement of 1.95, Dr. Pedersen

Dr. Pedersen and several of her coauthors on the study disclosed financial relationships with Abbott, the company that markets adalimumab. Two of her coauthors had similar relationships with Wyeth, the company that markets etanercept, and one coauthor had similar relationships with Centocor Inc., the company that markets infliximab.

(clopidogrel bisulfate) tablet, film coated

clinical trials are listed below regardless of relationship to PLAVIX. In general, the incidence of these events was similar to that in patients receiving aspirin (in CAPRIE) or placebo + aspirin (in the other clinical trials).

Body as a whole: Allergic reaction, necrosis ischemic. Cardiovascular disorders: Edema generalized. Gastrointestinal system disorders: Peptic, gastric or duode-nal ulcer, gastritis, gastric ulcer perforated, gastritis hemorrhagic, upper Gl ulcer hemorrhagic. Liver and Biliary system disorders: Bilirubinemia, hepatitis infectious, liver fatty. Platelet, bleeding and clotting disorders: hemarthrosis, hemorturia, hemoptysis, hemorrhage intracranial, hemorrhage retroperitoneal, hemorrhage rhage of operative wound, ocular hemorrhage, pulmonary hemorrhage, purpura allergic, thrombocytopenia. Red blood cell disorders: Anemia aplastic, anemia hypochromic. Reproductive disorders, female: Menorrhagia. Respiratory system disorders: Hemothorax. Skin and appendage disorders: Bullous eruption, rash erythematous, rash maculopapular, urticaria. Urinary system disorders: Abnormal renal function, acute renal failure. White cell and reticuloendothelial system disorders: Agranulocytosis, granulocytopenia, leukemia, leukopenia, neutrope-

Postmarketing Experience
The following events have been reported spontaneously from worldwide postmarketing experience:

- Body as a whole:
 hypersensitivity reactions, anaphylactoid reactions, serum sickness
- Central and Peripheral Nervous System disorders:
 confusion, hallucinations, taste disorders
- Hepato-biliary disorders:

- Hepato-billary disorders:

 abnormal liver function test, hepatitis (non-infectious), acute liver failure

 Platelet, Bleeding and Clotting disorders:

 cases of bleeding with fatal outcome (especially intracranial, gastrointestinal and retroperitoneal hemorrhage)
 thrombotic thrombocytopenic purpura (TTP) some cases with fatal outcome (see WARNINGS)

 - agranulocytosis, aplastic anemia/pancyto-conjunctival, ocular and retinal bleeding
- Respiratory, thoracic and mediastinal disorders.
 bronchospasm, interstitial pneumonitis
- · Skin and subcutaneous tissue disorders:
- angioedema, erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis, lichen planus
- Renal and urinary disorders:
 glomerulopathy, increased creatinine levels
- Vascular disorders:
- vasculitis, hypotension
 Gastrointestinal disorders:
- colitis (including ulcerative or lymphocytic colitis), pancreatitis, stoma-
- Musculoskeletal, connective tissue and bone disorders:

OVERDOSAGE

Overdose following clopidogrel administration may lead to prolonged bleeding time and subsequent bleeding complications. A single oral dose of clopidogrel at 1500 or 2000 mg/kg was lethal to mice and to rats and at 3000 mg/kg to baboons. Symptoms of acute toxicity were vomiting (in baboons), prostration, difficult breathing, and gastrointestinal hemorrhage in all species.

Recommendations About Specific Treatment

Based on biological plausibility, platelet transfusion may be appropriate to reverse the pharmacological effects of PLAVIX if quick reversal is required. DOSAGE AND ADMINISTRATION

Recent MI, Recent Stroke, or Established Peripheral Arterial Disease The recommended daily dose of PLAVIX is 75 mg once daily.

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Acute Coronary Syndrome

For patients with non-ST-segment elevation acute coronary syndrome (unstable angina/non-Q-wave MI), PLAVIX should be initiated with a single 300-mg loading dose and then continued at 75 mg once daily. Aspirin (75 mg-325 mg once daily) should be initiated and continued in combination with PLAVIX. In CURE, most patients with Acute Coronary Syndrome also received heparin acutely (see CLINICAL STUDIES in the full prescribing information).

For patients with ST-segment elevation acute myocardial infarction, the recommended dose of PLAVIX is 75 mg once daily, administered in combination with aspirin, with or without thrombolytics. PLAVIX may be initiated with or without a loading dose (300 mg was used in CLARITY; see CLINICAL STUDIES in the full prescribing information).

CYP2C19 poor metabolizer status is associated with diminished response to clopidogrel. The optimal dose regimen for poor metabolizers has yet to be determined. (See CLINICAL PHARMACOLOGY: Pharmacogenetics in the full prescribing information.)

No dosage adjustment is necessary for elderly patients or patients with renal disease. (See CLINICAL PHARMACOLOGY: Special Populations in the full prescribing information.)

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CLO-BSPL-PK-MAY09

Revised: May 2009

Registry Shows 63% Response Rate to TNF Inhibitor in AS

BY MITCHEL L. ZOLER

COPENHAGEN — Treatment with a tumor necrosis factor inhibitor produced a 63% clinical response rate in 842 ankylosing spondylitis patients who were treated for a median of more than a year in Denmark

The Danish experience also showed that women and patients with higher disease activity at baseline were the least able to remain on treatment with a tumor necrosis factor (TNF) inhibitor, Dr. Bente Glintborg said at the annual European Congress of Rheumatology.

The registry data also documented an 8% rate of patients who stopped TNF inhibitor treatment because of adverse effects, said Dr. Glintborg, a researcher at Gentofte (Denmark) Hospital.

Dr. Glintborg and her associates used data collected by DANBIO, a registry begun in 2000 of patients treated with a biologic drug in Denmark. Through November 2008, the registry included 909 patients with ankylosing spondylitis who began first treatment with a TNF inhibitor.

Follow-up data were available for 842 of these patients. Their average age was 41 years (range, 32-50 years), their median disease duration when starting the TNF inhibitor was 5 years (range, 1-13 years), and 28% were women. Roughly half received infliximab (Remicade), about a quarter got adalimumab (Humira), and about 15% received etanercept (Enbrel), with the remaining patients receiving another drug. Patients were followed for a median of 437 days (range, 161-996 days).

TNF inhibitor treatment improved disease activity. BASDAI (Bath Ankylosing Spondylitis Disease Activity Index) scores dropped from an average of 59 at baseline to 21 after a year of treatment among the 644 patients who were assessed with the BASDAI at baseline.

The Bath AS functional index and metrology index, as well as a visual analog scale global assessment, all showed similar declines with treatment. Serum levels of C-reactive protein fell from an average of 14 mg/L at baseline to 5 mg/L after 1 year.

Clinical response (defined as a drop in the BASDAI from baseline of at least 50% or 20 mm) was achieved by 63% of the patients who had undergone BASDAI

Patients stayed on their starting TNF inhibitor regimen for a median of 4.3 years. The most common reasons for stopping treatment were lack of efficacy in 115 patients (14%) and adverse events in 69 patients (8%).

Treatment duration was shortest among women and patients with higher disease activity at the start of treatment, as measured by the BASDAI. These were the only significant predictors of treatment discontinuation in a multivariate model. Women had a 64% higher rate of stopping TNF inhibitor treatment than did men. Factors included in the model that were not significant determinants were age, C-reactive protein level at baseline, treatment with methotrexate, disease duration, and other baseline measures of disease activity.

Dr. Glintborg and her associates had no financial relationships to disclose. ■