Arthritis

Gains Seen in Ankylosing Spondylitis; Dx Lags

BY BRUCE K. DIXON

Chicago Bureau

CHICAGO — Early treatment of ankylosing spondylitis may or may not prevent structural damage but it certainly improves quality of life and the ability to function, Dr. John Davis told a symposium of the American College of Rheumatology.

Dr. Davis pointed to four reasons for why ankylosing spondylitis (AS) is typically diagnosed about 8 years after disease onset: low awareness of the spondyloarthritis among nonrheumatologists; the erroneous belief among rheumatologists that AS is a "man's disease"; the difficulty in differentiating between mechanical and inflammatory back pain; and reliance on radiologic sacroiliitis, which is a late feature of AS.

Dr. Davis, who directs the Clinical Trials Center at the University of California, San Francisco, noted that the Spondylitis Association of America guidelines call for a thorough physical exam including xrays, individual medical history, and any family history of AS, as well as blood work that includes a test for HLA-B27 antigen. Important signs of AS include pain that has persisted longer than 3 months, back pain, and stiffness that worsen with immobility but ease with physical activity, and a positive response to NSAIDs.

Research efforts are now focusing on three TNF inhibitors. Phase III trials of three biologics showed good responses that were maintained at over 2 years (etanercept and infliximab) and 24 weeks (adalimumab). All three drugs significantly outperformed placebo in phase III studies using the Assessment in AS (ASAS) International Working Group criteria and the Bath Ankylosing Spondylitis Disease Activity Index (BASDAI). The BASDAI form contains six visual analog scales ("none" to "very severe") on fatigue, neck, back or hip pain, joint pain and swelling, tender areas, and morning stiffness. "If you use the BASDAI as an outcome measure you should expect about a 50% improvement in the BASDAI 50 in all the anti-TNF studies," Dr. Davis explained, adding that



Those with axial involvement should skip DMARDs and go directly to a biologic agent.

DR. DAVIS

physicians can print out the one-page form and have patients fill it out in their offices. The form is available at www.spondyli tis.org/physician_resources/cme/ basdai.pdf.

In studies using the ASAS 5/6 Improvement Criteria, patient responses to tumor necrosis factor (TNF) inhibition approached 50%. Under this protocol, said Dr. Davis, patients had to have an improvement of at least 20% in four of five domains, including patient global, pain, function, inflammation, C-reactive protein, and/or spinal mobility. "Also, total spinal fusion is not a contraindication for using anti-TNF agents, as about 10% of patients who enrolled in the adalimumab study could have had total spinal fusion yet they responded to that drug," he said, stressing that because anti-TNF therapy is lifelong, patients need to understand its risks and benefits.

International guidelines for treating patients with AS have been modified by the Spondyloarthritis Research and Treatment Network (SPARTAN) and are now in print (J. Rheumatol. 2006;33:978-82). "You can use the modified New York criteria or other evidence of spondyloarthropathy including inflammatory back pain, elevated acute phase reactants, rapid radiographic progression, spinal inflammation on imaging-including MRI—or, interestingly, ultrasound," Dr. Davis explained, noting that French researchers found ultrasound to be especially useful in assessing enthesopathies.

"Your patient should have a BASDAI score of at least 4, and you as a physician should assign a moderate disease activity score on either a visual analog scale or the Likert scale. In general, there are three clinical presentations you need to keep in mind ... the axial, peripheral arthritis excluding the hip, and the entheses. Pick out the predominant feature that you're going to treat and follow. All the manifestations should be treated with at least two courses of an NSAID, and those with significant

Continued on following page

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clock treatment of their pain for an extended period of time.

CONTRAINDICATIONS: ULTRAM ER should not be administered to patients who have previously demonstrated hypersensitivity to tramadol, any other component of this product or opioids. ULTRAM ER is contraindicated in any situation where poidisd are contraindicated, including acute intoxication with any of the following: alcohol, hypnotics, narcotics, centrally acting analgesics, opioids or psychotropic drugs. ULTRAM ER may worsen central nervous system and respiratory depression in these patients.

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WARNINGS: Seizure Risk: Seizures have been reported in patients receiving tramadol within the recommended dosage range. Spontaneous post-marketing reports indicate that seizure risk is increased with doses of tramadol above the recommended range. Concomitant use of tramadol increases the seizure risk in patients taking: 1. Selective serotonin re-uptake inhibitors (SSRI antidepressants or anorectics), 2. Tricyclic antidepressants (TCAs), and other tricyclic compounds (e.g., cyclobenzaprine, promethazine, etc.), or 3. Other opioids. Administration of tramadol may enhance the seizure risk in patients taking: 1. MAO inhibitors (see also WARNINGS - Use with MAO Inhibitors), 2. Neuroleptics, or 3. Other drugs that reduce the seizure threshold. Risk of convulsions may also increase in patients with epilepsy, those with a history of seizures, or in patients with a recognized risk for seizure (such as head trauma, metabolic disorders, alcohol and drug withdrawal, CNS infections). In tramadol overdose, naloxone administration may increase the risk of seizure.

Suicide Risk: 1. Do not prescribe ULTRAM ER for patients who are suicidal or addiction-prone. 2. Prescribe ULTRAM ER with caution for patients taking tranquilizers or antidepressant drugs and patients who use alcohol in excess. 3. Tell your patients not to exceed the recommended dose and to limit their intake of alcohol.

Tramadol products in excessive doses, either alone or in combination with other CNS depressants, including alcohol, are a major cause of dose solution. Tramadol products in excessive doses, either alone or in combination with other CNS depressants, including alcohol, are a major cause of drug-related deaths. Fatalities within the first hour of overdosage are not uncommon. Tramadol should not be taken in doses higher than those recommended by the physician. The judicious prescribing of tramadol is essential to the safe use of this drug. With patients who are depressed or suicidal, consideration should be given to the use of non-narcotic analgesics. Patients should be cautioned about the concomitant se of tramadol products and alcohol because of potentially serious CNS-additive effects of these agents. Because of its added depressant effects, tramadol should be prescribed with caution for those patients whose medical condition requires the concomitant administration of sedatives, tranquilizers, muscle relaxants, antidepressants, or other CNS-depressant drugs. Patients should be advised of the additive depressant effects of these combinations. Many of the tramadol-related deaths have occurred in patients with previous histories of emotional disturbances or suicidal ideation or attempts as well as histories of misuse of tranquilizers, alcohol, and other CNS-active drugs. Some deaths have occurred as a consequence of the accidental ingestion of excessive quantities of tramadol alone or in combination with other drugs. Patients taking tramadol should be warned not to exceed the dose recommended by their physician.

Anaphylactoid Reactions: Serious and rarely tatal anaphylactoid reactions have

warned not to exceed the dose recommended by their physician.

Anaphylactoid Reactions: Serious and rarely fatal anaphylactoid reactions have been reported in patients receiving therapy with tramadol. When these events do occur it is often following the first dose. Other reported allergic reactions include purifuls, hives, bronchospasm, angioedema, toxic epidermal necrolysis and Stevens-Johnson syndrome. Patients with a history of anaphylactoid reactions to codeine and other opioids may be at increased risk and therefore should not receive ULTRAM ER (see CONTRAINDICATIONS).

Respiratory Depression: Administer ULTRAM ER cautiously in patients at risk for respiratory depression. In these patients alternative non-opioid analgesics should be considered. When large doses of tramadol are administered with anesthetic modelations. considered. When large doses of tramadol are administered with anesthetic medications or alcohol, respiratory depression may result. Respiratory depression should be treated as an overdose. If naloxone is to be administered, use cautiously because it may precipitate seizures (see WARNINGS - Seizure Risk and OVERDOSAGE).

because it may precipitate seizures (see WARNINGS - Seizure Risk and OVERDOSAGE).

Interaction With Central Nervous System (CNS) Depressants: ULTRAM ER should be used with caution and in reduced dosages when administered to patients receiving CNS depressants such as alcohol, points, anesthetic agents, narcotics, phenothiazines, tranquilizers or sedative hypnotics. ULTRAM ER increases the risk of CNS and respiratory depression in these patients.

Increased Intracranial Pressure or Head Trauma: ULTRAM ER should be used with caution in patients with increased intracranial pressure or head injury. The respiratory depressant effects of opioids include carbon dioxide retention and secondary elevation of cerebrospinal fluid pressure, and may be markedly exaggerated in these patients. Additionally, pupillary changes (miosis) from tramadol may obscure the existence, extent, or course of intracranial pathology. Clinicians should also maintain a high index of suspicion for adverse drug reaction when evaluating altered mental status in these patients if they are receiving ULTRAM ER (see WARNINGS - Respiratory Depression).

Use in Ambulatory Patients: ULTRAM ER may impair the mental and or physical abilities required for the performance of potentially hazardous tasks such as driving a car or operating machinery. The patient using this drug should be cautioned accordingly.

cautioned accordingly.

Use With MAO Inhibitors and Serotonin Re-uptake Inhibitors: Use ULTRAM ER with great caution in patients taking monoamine oxidase inhibitors. Animal studies have shown increased deaths with combined administration. Concomitant use of ULTRAM ER with MAO inhibitors or SSRIs increases the risk of adverse events, including seizure and serotonin syndrome.

Withdrawal: Withdrawal symptoms may occur if ULTRAM ER is discontinued abruptly. These symptoms may include: anxiety, sweating, insomnia, rigors, pain, nausea, tremors, diarrhea, upper respiratory symptoms, piloerection, and rarely hallucinations. Clinical experience suggests that withdrawal symptoms may be reduced by tapering ULTRAM ER.

Misuse, Abuse and Diversion of Delater Teached.

reduced by tapering ULTRAM ER.

Misuse, Abuse and Diversion of Opioids: Tramadol is an opioid agonist of the morphine-type. Such drugs are sought by drug abusers and people with addiction disorders and are subject to criminal diversion. Tramadol can be abused in a manner similar to other opioid agonists, legal or illicit. This should be considered when prescribing or dispensing ULTRAM ER in situations where the physician or pharmacist is concerned about an increased risk of misuse, abuse, or diversion ULTRAM ER obuild be abused by crushing, chewing, snorting, or injecting the dissolved product. These practices will result in the uncontrolled delivery of the opioid and pose a significant risk to the abuser that could result in overdose and death (see WARNINGS and DRUG ABUSE AND ADDICTION). Concerns about

Interactions with Alcohol and Drugs of Abuse: Tramadol may be expected to have additive effects when used in conjunction with alcohol, other opioids, or illicit drugs that cause central nervous system depression.

drugs that cause central nervous system depression. DRIGA BUSE AND ADDICTION: ULTRAM ER is a mu-agonist opioid. Tramadol, like other opioids used in analgesia, can be abused and is subject to criminal diversion. Drug addiction is characterized by compulsive use, use for non-medical purposes, and continued use despite harm or risk of harm. Drug addiction is a treatable disease, utilizing a multi-disciplinary approach, but relapse is common. "Drug-seeking" behavior is ever common in addicts and drug abusers. Drug-seeking

tactics include emergency calls or visits near the end of office hours, refusal to undergo appropriate examination, testing or referral, repeated "loss" of prescriptions, tampering with prescriptions and reluctance to provide prior medical records or contact information for other treating physician(s). "Doctor shopping" to obtain additional prescriptions is common among drug abusers and people suffering from untreated addiction. Abuse and addiction are separate and distinct from physical dependence and tolerance. Physicians should be aware that addiction may not be accompanied by concurrent tolerance and symptoms of physical dependence in all addicts. In addition, abuse of opioids can occur in the absence of true addiction and is characterized by misuse for non-medical purposes, often in combination with other psychoactive substances. ULTRAM less information, including quantity, frequency, and renewal requests is strongly advised. Proper assessment of the patient, proper prescribing practices, periodic re-evaluation of therapy, and proper dispensing and storage are appropriate measures that help to limit abuse of opioid drugs.

periodic re-evaluation of therapy, and proper dispensing and storage are appropriate measures that help to limit abuse of opioid drugs.

ULTRAM ER is intended for oral use only. The crushed tablet poses a hazard of overdose and death. This risk is increased with concurrent abuse of alcohol and other substances. With parenteral abuse, the tablet excipients can be expected to result in local tissue necrosis, infection, pulmonary granulomas, and increased risk of endocarditis and valual reat riquiry. Parenteral drug abuse is commonly associated with transmission of infectious diseases such as hepatitis and HIV.

Risk of Overdosage: Serious potential consequences of overdosage with ULTRAM ER are central nervous system depression, respiratory depression and death. In treating an overdose, primary attention should be given to maintaining adequate ventilation along with general supportive treatment (see OVERDSAGE).

Use in Renal and Hepatic Disease: Impaired renal function results in a decreased rate and extent of excretion of tramadol and its active metabolite, MI. LUTRAM ER has not been studied in patients with severe renal impairment (CLcr < 30 ml/min). The limited availability of dose strengths and once daily dosing of ULTRAM ER do not permit the dosing flexibility required for safe use in patients with severe renal impairment. Therefore, ULTRAM ER should not be used in patients with severe renal impairment to been studied in patients with severe renal impairment. The been studied in patients with severe hepatic impairment of the entitle of patients with severe hepatic impairment. Therefore, ULTRAM ER should not be used in patients with severe hepatic impairment. Therefore, ULTRAM ER should not be used in patients with severe hepatic impairment. Therefore, ULTRAM ER should not be used in patients with severe hepatic impairment see Clurical patients and once daily dosing of ULTRAM ER do not permit the dosing flexibility required for safe use in patients with severe hepatic impairment. Therefore, ULTRAM ER should no

PRECAUTIONS: Acute Abdominal Condition: The administration of ULTRAM ER may complicate the clinical assessment of patients with acute abdominal conditions.
INFORMATION FOR PATIENTS: 1. Patients should be informed that ULTRAM ER is for oral use only and should be swallowed whole. The tablets should not be chewed, crushed, or split. 2. Patients should be informed that ULTRAM ER insolving impair mental or physical abilities required for the performance of potentially hazardous tasks such as driving a car or operating machinery. 3. Patients should be informed that ULTRAM ER should not be taken with alcohol containing beverages. 4. Patients should be informed that ULTRAM ER should be used with caution when taking medications such as tranquilizers, hypnotics or other opiate containing analgesics. 5. Female patients should be instructed to inform the rescriber if they are pregnant, think they might become pregnant, or are trying to become pregnant (see PRECAUTIONS, Labor and Delivery). 6. Patients should be deducated regarding the single-dose and 24-hour dosing regimen, as exceeding these recommendations can result in respiratory depression, seizures or death.

Use in Drug and Alcohol Addiction: ULTRAM ER is an opioid with no approved use in the management of addictive disorders. Its proper usage in individuals with drug or alcohol dependence, either active or in remission, is for the management of pain requiring opioid analgesia.

Drug Interactions: Use With Carbamazepine: Patients taking carbamazepine, a CYP3A4 Inducer, may have a significantly reduced analgesic effect of tramadol. Decause carbamazepine in coreases tramadol metabolism and because of the seizure risk associated with tramadol, concomitant administration of ULTRAM ER and carbamazepine is not recommended.

Use With Quinidine: Coadministration of quinidine with ULTRAM ER resulted in a PRECAUTIONS: Acute Abdominal Condition: The administration of ULTRAM ER may complicate the clinical assessment of patients with acute abdominal conditions.

Juse With Quantidines: Coadministration of quinidine with ULTRAM ER resulted in a 50-60% increase in tramadol exposure and a 50-60% decrease in M1 exposure (see CLINICAL PHARMACOLOGY, Drug Interactions in full Prescribing Information). The clinical consequences of these findings are unknown.
Use With MAO Inhibitors: Interactions with MAO Inhibitors, due to interference

Use With Digoxin and Warfarin: Post-marketing surveillance of tramadol has revealed rare reports of digoxin toxicity and alteration of warfarin effect, including elevation of prothrombin times.

everauon or prothrombin times.

**Potential for Other Drugs to Affect Tramadol: In vitro drug interaction studies in human liver microsomes indicate that concomitant administration with inhibitors of CYP2D6 such as fluoxetine, paroxetine, and amitriptyline could result in some inhibition of the metabolism of tramadol. Administration of CYP3A6 inhibitors, such as ketoconazole and erythromycin, or inducers, such as rifampin and St. John's Wort, with ULTRAM ER may affect the metabolism of tramadol leading to altered tramadol exposure.

Potential for Tramadol exposure.

Potential for Tramadol to Affect Other Drugs: In vitro drug interaction studies in human liver microsomes indicate that tramadol has no effect on quinidine metabolism. In vitro studies indicate that tramadol is unlikely to inhibit the CYP3A4-mediated metabolism of other drugs when administered conomitantly at therapeutic doses. Tramadol is a mild inducer of selected drug metabolism pathways measured in animals.

CARCINOGENESIS, MUTAGENESIS, IMPAIRMENT OF FERTILITY: No carcinogenic effect of tramadol was observed in p53(+/-)-heterozygous mice at oral doses up to 150 mg/kg/day (approximately 2-fold maximum daily human fose [MDHD] of 400 mg/day for a 60 kg adult based on body surface conversion) for 26 weeks and in rats at oral doses up to 75 mg/kg/day for males and 100 mg/kg/day for females (approximately 2-fold MDHD) for two years. However, the excessive decrease in body weight gain observed in the rat study might have reduced their sensitivity to any potential carcinogenic effect of the drug. Tramadol was not mutagenic in the following assays: a bacterial reverse mutation assay using Salmonella and E. coli, a mouse lymphoma assay (in the absence of metabolic activation), and a bone marrow micronucleus test in mice. Mutagenic results occurred in the presence of metabolic activation in the mouse lymphoma assay. Overall, the weight of evidence from these tests indicates that tramadol does not pose a genotoxic risk to humans. No effects on fertility were observed for tramadol at oral dose levels up to 50 mg/kg/day in male and female rats (approximately equivalent to MDHD). CARCINOGENESIS, MUTAGENESIS, IMPAIRMENT OF FERTILITY: No carcinogenic effect of tramadol was observed in p53(+/-)-heterozygous mice at

for tramadol at oral dose levels up to 50 mg/kg/day in male and female rats (approximately equivalent to MDHD).

Pregnancy: Teratogenic Effects: Pregnancy Category C: Tramadol was not teratogenic at oral dose levels up to 50 mg/kg/day (approximately valvalent to MDHD) in rats and 100 mg/kg (approximately 5-fold MDHD) in rabbits during organogenesis. However, embryo-fetal lethality, reductions in fetal weight and skeletal ossification, and increased supernumerary ribs were observed at a maternal toxic dose of 140 mg/kg in mice (approximately 2-fold MDHD), 80 mg/kg in rabits (approximately 15-fold MDHD). Non-teratogenic Effects: Tramadol caused a reduction in neonatal body weight and survival at an oral dose of 80 mg/kg (approximately 2-fold MDHD) when rats were treated during late gestation throughout lactation period. There are no adequate and well-controlled studies in pregnant women. ULTRAM ER should be used during perganacy only if the potential benefit justifies the potential risk to the fetus. Neonatal seizures, neonatal withdrawal syndrome, fetal death and still birth have been reported during post-marketing reports with tramadol HC immediate-release products. Labor and Delivery: ULTRAM ER should not be used in pregnant women prior to or during lator unless the potential benefits outweigh the risks. Safe use in pregnancy has not been established. Chronic used during pregnancy may lead to physical dependence and post-partum withdrawal symptoms in the newborn (see

DRUG ABUSE AND ADDICTION), Tramadol has been shown to cross the placenta. The mean ratio of serum tramadol in the umbilical veins compared to maternal veins was 0.83 for 40 women treated with tramadol HCl during labor. The effect of ULTRAM ER, if any, on the later growth, development, and functional maturation of the child is unknown.

maturation of the child is unknown.

Nursing Mothers: ULTRAM ER is not recommended for obstetrical preoperative medication or for post-delivery analgesia in nursing mothers because its safety in infants and newborns has not been studied. Following a single IV 100-mg dose of tramadol, the cumulative excretion in breast milk within sixteen hours postdose was 100 µg of tramadol (0.1% of the maternal dose) and 27 µg of M1.

Pediatric Use: The safety and efficacy of ULTRAM ER in patients under 18 years of age have not been established. The use of ULTRAM ER in the pediatric population is not recommended.

population is not recommended.

Geriatric Use: Nine-hundred-one elderly (65 years of age or older) subjects were exposed to ULTRAM ER in clinical trials. Of those subjects, 156 were 75 years of age and older. In general, higher incidence rates of adverse events were observed for patients older than 65 years of age compared with patients 65 years and younger, particularly for the following adverse events: constipation, fatigue, weakness, postural hypotension and dyspepsia. For this reason, ULTRAM ER should be used with great caution in patients older than 75 years of age (see CLIMCAL PHARMACOLOGY in full Prescribing Information and DOSAGE AND ADMINISTRATION).

ADVERSE REACTIONS: ULTRAM ER was administered to a total of 3108 patients during studies conducted in the U.S. These included four double-blind studies in patients with osteoarthritis and/or critomic low back pain and one open-label study in patients with chronic non-malignant pain. A total of 901 patients were 65 years or older. Adverse events increased with dose from 100 mg to 400 mg in the two pooled, twelve-week, randomized, double-blind, placebo-controlled studies in

in patients with chronic non-malignant pain. All of 901 patients were 65 years or older. Adverse events increased with dose from 100 mg to 400 mg in the two pooled, twelve-week, randomized, double-blind, placebo-controlled studies in patients with chronic non-malignant pain (see Table 1). Table 1: Incidence (%) of natients with adverse event rates ≥ 5% from two 12-week placebo-controlled studies in patients with moderate to moderately severe chronic pain by dose. MedDRA Preferred Term first, followed by ULTRAM ER 100 mg (N=403) n (%) second; ULTRAM ER 200 mg (N=400) n (%) birtirt, ULTRAM ER 300 mg (N=400) n (%) birtirt, ULTRAM ER 300 mg (N=400) n (%) birtirt, ULTRAM ER 300 mg (N=202) n (%) fifth; and Placebo (N=406) n (%) sixth: Dizziness (not vertigo): 64 (15.9), 81 (20.3), 90 (22.5), 52 (26.5), 53 (26.5), 53 (26.2), 23 (7.9); Constipation: 49 (12.2), 68 (17.0), 85 (21.3), 60 (29.7), 17 (4.2); Sommolence: 33 (28.2), 48 (6.9), Nausea: 61 (15.1), 90 (22.5), 102 (25.5), 53 (26.2), 23 (7.9); Constipation: 49 (12.2), 68 (17.0), 85 (21.3), 60 (29.7), 17 (4.2); Sommolence: 33 (21.5), 81 (4.4), Purutrus: 25 (6.2), 34 (8.5), 30 (7.5), 24 (11.9), 4 (1.0); Vorniting: 20 (5.0), 29 (7.3), 34 (8.5), 19 (9.4), 11 (2.7); Insomnia: 26 (6.5), 32 (8.0), 36 (9.2) (21.9), 13 (3.2); Asthenia: 14 (3.5), 24 (6.0), 26 (6.5), 31 (6.4), 7 (1.7); Postural hypotension: 7 (1.7), 17 (4.3), 8 (2.0), 11 (5.4), 9 (2.2); Sweating increased: 6 (1.5), 8 (2.0), 15 (3.8), 13 (6.4), 7 (1.0); Weakness: 3 (0.7), 8 (2.0), 14 (3.5), 9 (4.5), 5 (1.2); Rigors: 3 (0.7), 2 (0.5), 9 (2.3), 7 (3.5), 1 (0.2); Kanorexia: 3 (0.7), 7 (1.8), 2 (1.6), 2 (1.5), 7 (1.8), 1 (2.5), 1 (0.5); Influenza like illness: 1 (0.2), 6 (1.5), 7 (1.8), 4 (2.0), 2 (0.5). Adverse events with incidence rates of 1.0% to 5.0%: Eye disorders: vision

22(10.9), 13 (3.5.), 23, 18 (2.0.), 11 (5.4.), 9 (2.2.); Neadlung increased: 6 (1.5.), 8 (2.0.), 15 (3.8.), 13 (6.4.), 10 (2.2.); Meanless: 3 (0.7.), 2 (0.5.), 9 (2.5.), 15 (3.8.), 3 (3.0.), 15 (3.8.), 3 (3.0.), 2 (3.5.), 10 (3.5.), 4 (3.5.), 9 (4.5.), 5 (1.5.), 12 (5.9.), 10 (2.5.); Industrial killenses: 1 (0.2.), 6 (1.5.), 7 (1.8.), 4 (2.0.), 2 (0.5.), 4 (2.6.), 10 (2.5.); Industrial killenses: 1 (0.2.), 6 (1.5.), 7 (1.8.), 4 (2.0.), 2 (0.5.), 3 (2.6.9.), 10 (2.5.); Industrial killenses: 1 (0.2.), 6 (1.5.), 7 (1.8.), 4 (2.0.), 2 (0.5.), 4 (2.6.), 10 (2.5.); Industrial killenses: 1 (0.2.), 6 (1.5.), 7 (1.8.), 4 (2.0.), 2 (0.5.), 4 (2.6.), 2 (0.5.), 3 (2.6.), 10 (2.5.); Industrial killenses, pain, feeling hot, influenza like illness, fall, rigors, lethargy, pyrexia, chest pain; *Infections and infestations*: anasopharyogitis, upper respiratory tract infection, investigations: blood reattine phosphokinase increaset. Metabolism and nutrition disorders: appetite decreased, weight decreased, anorexia, Musculoskeletal, connective tissue and bone disorders: arbradiga, back pain, pain in limb, neck pain; Merous system disorders: tremor, paraesethesia, hypoaesthesia; Psychiatric disorders: nervousness, anxiety, depression, restlessness; Respiratory, thoracic and bone disorders: arbradiga, back pain, pain in limb, neck pain; Merous system disorders: tremor, paraesethesia, hypoaesthesia; Psychiatric disorders: nervousness, anxiety, depression, restlessness; Respiratory, thoracic and demalitish disorders: controlled to the control of th

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AS Effects on Shoulder Often Are Overlooked

BY NANCY WALSH
New York Bureau

GLASGOW, SCOTLAND — Shoulder involvement is often overlooked in ankylosing spondylitis, despite patients' reports that upper body pain interferes with their daily activities, Dr. Charlotte E. Page reported in a poster session at the annual meeting of the British Society for Rheumatology.

Among a group of 31 ankylosing spondylitis (AS) patients attending a 2-week physiotherapy program who responded to questionnaires about their symptoms, 12 reported current shoulder pain, while 10 patients reported experiencing shoulder pain in the past, reported Dr. Page of the rheumatology department of University Hospital of Wales, Cardiff. The patients, aged 17-62 years, had a mean AS duration of 19 years.

Among patients with current shoulder pain, four reported bilateral symptoms, and nine indicated that their daily activities were affected. Among those with previous pain, three study patients reported that their shoulder involvement continued to interfere with their daily activities, noted Dr. Page.

The reported prevalence of shoulder pain among the general population is approximately 12%, and estimates among those with AS range from 7% to 33%, she noted. "Our prevalence of 39% is slightly higher, probably reflecting the type of patients who attend intensive physiotherapy programs."

Continued from previous page

arthritis or refractory enthesopathies should have failed either methotrexate or sulfasalazine at maximally tolerated doses for at least 3 months. For those with axial involvement, there's no requirement for disease-modifying nonbiologic tirheumatic drugs (DMARDs) and they should go directly to a biologic agent," Dr. Davis said, adding that methotrexate and leflunomide have shown little evidence of efficacy in AS, while sulfasalizine has been shown to have effects mostly on peripheral manifestations. "Thalidomide and pamidronate interestingly have weak anti-TNF activity and have shown some clinical efficacy in small trials.

Muscle relaxants can help, particularly when the patient is starting physical therapy. Corticosteroids injected into the sacroiliac joints alleviate refractory pain and topical corticosteroids are effective in treating acute anterior uveitis, Dr. Davis said.

After placing a patient on TNF blockade, expect a response (based on clinical trials and clinical experience) within 12 weeks. "And you want a change in your BASDAI score of at least 50% or two units, and a change in your physician global score of at least one." Etanercept and infliximab have FDA approval, while approval of adalimumab is pending. Patients taking these medications should be screened for tuberculosis and consideration should be given to testing for hepatitis, especially in those from endemic areas, Dr. Davis said.

Only 10 of the 22 patients who had either current or past shoulder pain had undergone one or more radiologic investigations. Eight had been evaluated with plain radiographs, three with ultrasound, and three with MRI arthrograms.

Among the eight patients who had received one or more corticosteroid injections to the shoulder region, five reported still having shoulder pain and six reported still experiencing symptoms that interfered with daily activities. Among the

seven who had received physiotherapy directed at their shoulder symptoms, five continued to experience pain.

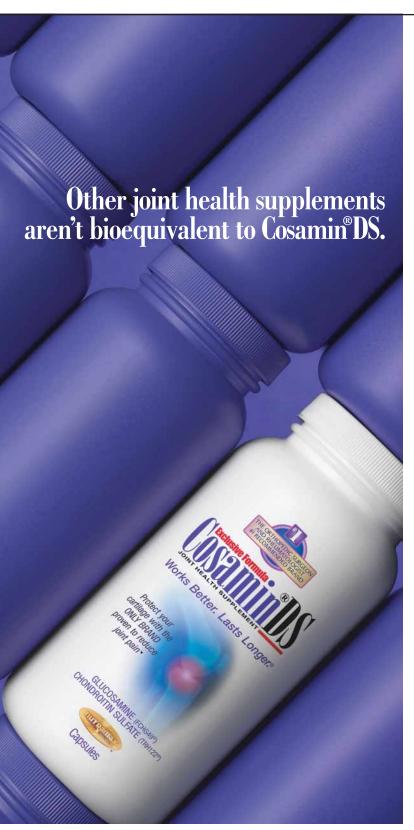
Specific physiotherapy and corticosteroid injections had therefore been given to only 32% and 36% of patients, respectively, and had not alleviated the symptoms in the majority, she noted.

Moreover, a total of 26 patients reported peripheral joint involvement other than the shoulder. Despite this, only six patients received disease-modifying antirheumatic

drugs or anti-tumor necrosis factor— α therapy, which suggests an underappreciation of the extent of AS patients' peripheral joint pain, according to Dr. Page.

Much of the shoulder involvement was rotator cuff tendonitis, which can be imaged and treated, Dr. Page said in an interview. Patients should be asked specifically about this, she said.

"We all know about their hip pain but we seem to forget about the top half" of the body, she said.



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