Sciatica Helped Little by IV Methylprednisolone

BY TIMOTHY F. KIRN Sacramento Bureau

SAN ANTONIO — A single, intravenous injection of methylprednisolone performed just slightly better than placebo in alleviating pain from acute discogenic sciatica, Axel Finckh, M.D., said at the annual meeting of the American College of Rheumatology.

Dr. Finckh presented a study in which 59 patients with radiographically con-

firmed discogenic sciatica were randomized to either a single, 500-mg, intravenous bolus of methylprednisolone or to placebo, and then followed for 10 days.

Both groups had significant improvement in pain on the first day, as shown with a 100-point, visual analog scale, with a greater mean improvement for the methylprednisolone group.

However, mean scores in both groups were about the same by the third day and remained comparable through day 10.

ORTHOVISC® High Molecular Weight Hyaluronan BRIEF SUMMARY. Please see full prescribing information.

NDICATIONS ORTHOWISC® is indicated in the treatment of pain in osteoarthritis (OA) of the knee in patients who have failed to respond adequately to conservative nonpharmacologic therapy and to simple analgesics, e.g. acetaminophen

CONTRAINDICATIONS

- Do not administer to patients with known hypersensitivity (allergy) to hyaluronate preparations.
 Do not administer to patients with known allergies to avian or avian-derived products (including
- eggs, feathers, or poultry). Do not inject ORTHONSC* in the knees of patients with infections or skin diseases in the area of the injection site or joint.

WARNINGS

- ARMINES Do not concomitantly use disinfectants containing quarternary ammonium salts for skin preparation as hyaluronic acid can precipitate in their presence. Transient increases in inflammation in the injected knee following ORTHOVISC® injection have been reported in some patients with inflammatory ostocarthritis.

PRECAUTIONS

- General
- Strict aseptic injection technique should be used during the application of ORTHOVISC*. The safety and effectiveness of the use of ORTHOVISC* in joints other than the knee have not been

- Initiality and ensurements on the user or universe in the ensurement of the syringe should be used immediately after opening. Discard any unused ORTHOUSC*. Do not syringe sh resterilize
- restratize, Do not use QRTHVUSC[®] if the package has been opened or damaged. Store QRTHVUSC[®] in its original package at room temperature (belw 77⁺7/5⁺0⁻), D0 N0T FREEZE, Remove jurit efflusion, if present, before injection R1NUSC[®]. Only medical professionals trained in accepted injection techniques for delivering agents into the knee jurit should inject OTRIVISC[®].

ADVERSE EVENTS

NUTROB CHART AND A CONTROL AND A proving une contour groups, writen were enther intraarticular same imjections or arthrocentesis. In the integrated analysis, there were 562 patients in the groups treated with ORTHOVISC® (434 receiving 3 injections and 128 receiving 4 injections), 296 in the group treated with physiological saline, and 123 in the group treated with arthrocentesis.

In us group vessels with effectiveness of the overall integrated population included: arthragia (12.6% in the other VMONS' group, 17.28 in the saline group, and 0.8% in the arthrocentesis group); tack pain (6.5% in the OTH/VMS'' group, 12.5% in the saline group, and 4.9% in the arthrocentesis group); and heatable MOS (12.1% in the 0TH/VMS'' group, 12.6% in the saline group, and 4.9% in the arthrocentesis group); and heatable MOS (12.1% in the 0TH/VMS'' group, 12.6% in the saline group, and 4.9% in the arthrocentesis group); and heatable MOS (12.1% in the 0TH/VMS'' group, 12.6% in the saline group, and 0.4%, in the saline group, and 12.9% in the arthrocentesis group); highcing at all adverse events (including cytherma, desting and and reaction MOS) occurred at rates of 0.4%, 0.4%, 0.4%, and 0.2% in the saline group and 0.0%, 0.0%, 0.3% and 0.8% in the saline group and 0.0%, 0.0%, 0.3% and 0.8% in the saline group and 0.0%, 0.4%, and 0.8% in the arthrocentesis group.

Local adverse events reported on a by-patient basis for the combined ITT populations of the three studies are presented in Table 1.

Table 1 Local individual adverse events reported on a by-patient

basis for the combined ITT populations of the three studies.			
Adverse Event	ORTHOVISC N = 562	Saline N = 296	Arthrocentesis N = 123
Any Adverse Event	349 (62.1%)	204 (68.9%)	65 (52.8%)
Injection site erythema	2 (0.4%)	0 (0%)	0 (0%)
Injection site edema	5 (0.9%)	1 (0.3%)	0 (0%)
Injection site pain	14 (2.5%)	6 (2.0%)	1 (0.8%)
Injection site reaction NOS1	1 (0.2%)	2 (0.7%)	1 (0.8%)
Pain NOS ¹	14 (2.5%)	11 (3.7%)	1 (0.8%)
Arthralgia	71 (12.6%)	51 (17.2%)	1 (0.8%)
Arthritis NOS1	4 (0.7%)	5 (1.7%)	0 (0%)
Arthropathy NOS'	5 (0.9%)	3 (1.0%)	0 (0%)
Baker's cyst	2 (0.4%)	2 (0.7%)	0 (0%)
Bursitis	6 (1.1%)	6 (2.0%)	2 (1.6%)
Joint disorder NOS ¹	2 (0.4%)	0 (0%)	0 (0%)
Joint effusion	2 (0.4%)	1 (0.3%)	1 (0.8%)
Joint stiffness	3 (0.5%)	2 (0.7%)	0 (0%)
Joint swelling	4 (0.7%)	2 0.7%)	1 (0.8%)
Localized osteoarthritis	5 (0.9%)	1 0.3%)	1 (0.8%)
Aggravated osteoarthritis	2 (0.4%)	0 (0%)	1 (0.8%)
Knee arthroplasty	3 (0.5%)	2 (0.7%)	0 (0%)

Notes: ¹NOS = Not otherwise specified.

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Both groups had gradual diminishment of pain from day 3 onward, said Dr. Finckh, of Brigham and Women's Hospital, Boston.

Nor were response rates significantly different on a straight leg test for radicular irritation, a McGill Pain Score for global pain, a flexibility score, and a functional disability questionnaire, Dr. Finckh explained.

The patients in the study had all had sciatica for at least 1 week, and not more than 6 weeks, prior to being treated.

Use of nonsteroidal anti-inflammatory drugs was permitted.

The use of corticosteroids in sciatica is controversial, Dr. Finckh said.

Most studies of oral administration have

not demonstrated any benefit.

Some studies of epidural administration, however, have shown positive findings.

His group conducted the study because they hypothesized that giving the corticosteroid intravenously might be a way to achieve high drug levels quickly, without the risks and pain typically associated with epidural administration.

Despite the negative results, Dr. Finckh seemed unwilling to give up completely on intravenous injection for sciatica.

He noted that 48% of the steroid-treated patients had pain improvement, versus 28% of the placebo patients.

Long-term treatment using the technique might have more of an effect, he said

Scleroderma Responds to Stem Cell Transplant

BY NANCY WALSH New York Bureau

SAN ANTONIO — A small group of patients with severe systemic sclerosis have shown a durable response to autologous hematopoietic stem cell transplantation, with 8 of 13 transplanted patients remaining alive after a mean follow-up of 44 months, Zora Marjanovic, M.D., reported at the annual meeting of the American College of Rheumatology.

Stem cell transplantation has in recent years been investigated for use in diseases such as scleroderma following observations that some patients with autoimmune disease who undergo transplantation for hematopoietic or other malignancies also may experience a remission of the autoimmune disease after the procedure.

In the first sequential open phase I-II study assessing the feasibility of autologous stem cell transplantation for systemic sclerosis with early visceral involvement, patients were eligible if they had rapidly progressing disease with heart, lung, or kidney involvement, Dr. Marjanovic said in a poster session.

The transplant protocol involved mobilization with cyclophosphamide plus recombinant human granulocyte colonystimulating factor (GCSF) or GCSF alone if the left ventricular ejection fraction (LVEF) was less than 40%.

Subsequent conditioning, which took place at least 4 weeks after mobilization, used cyclophosphamide, 200 mg/kg, or melphalan, 140 mg/m2 if the LVEF was less than 40%.

Outcomes following reinjection of CD34+ and hematopoietic stem cells were classified as major response, partial response, no response, disease progression, or relapse. Patients were assessed every 3 months.

Of the 14 patients enrolled in the nonrandomized trial, 13 were transplanted; 1 withdrew after mobilization.

One procedure-related death occurred, she said.

Six months following transplantation, nine patients responded to treatment-six had major responses and three had partial responses.

Âfter a mean follow-up of 44 months, 8 of the responding patients were alive, 4 have died from disease progression. One nonresponding patient remains alive.

During the follow-up period, five patients relapsed but eventually responded to reintroduction of immunosuppression by mycophenolate mofetil. Four of these were partial responses, and one was a major response, said Dr. Marjanovic of University Hospital Center Saint-Louis, Paris, France.

This trial demonstrated that autologous hematopoietic stem cell transplantation is feasible in severe scleroderma, with low toxicity and significant clinical benefits, she said.

In a report published earlier and based on 12 of the patients, toxicity associated with the procedure included infections occurring during the neutropenic period of mobilization; these were managed with antibiotics (Br. J. Haematol. 2002;119:726-

There were also two episodes of mucositis and three cases of mild hepatic toxicity during intensification.

Stem cell transplantation is now being compared with monthly cyclophosphamide in an ongoing phase III trial, Dr. Marianovic said.

In the Autologous Stem Cell International Scleroderma (ASTIS) trial, patients with diffuse systemic sclerosis and visceral involvement who are at risk for severe organ dysfunction and premature mortality are being prospectively randomized to the experimental transplant procedure or standard monthly intravenous pulse therapy with cyclophosphamide.

As of October 2004, 41 patients from 16 centers in eight European countries have been enrolled. The primary end point is event-free survival during 2 years of follow-up. Information is available at www.astistrial.com.