JIA-Related Uveitis Outcomes Called 'Excellent'



Immunosuppression should start early in JIA to prevent prolonged ocular inflammation.

from an inception cohort of 1,081 children with juvenile idiopathic arthritis (JIA) who were followed for a median of 6.9 years; uveitis developed in 142 (13%). ong-term outcomes of uveitis as-

At the last follow-up visit, with best corrected visual acuity assessment available for 108 patients, 10 had become legally blind, 4 had impaired vision, and the remaining 94 had good visual acuity, the researchers reported (Arthritis Rheum. 2007;56:647-57).

Chronic anterior uveitis was the most common type, developing in 97 of the



BY NANCY WALSH

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single-center study in which there was a

low incidence of resulting blindness, Dr.

Rotraud K. Saurenmann and colleagues

the Hospital for Sick Children and the

University of Toronto analyzed data

Dr. Saurenmann and her associates at

reported.

sociated with juvenile idiopathic arthritis were excellent in a large,

ADVERSE EVENTS

Adverse Events Involving the Injected Joint

Adverse events involving the injected John Clinical Trials: A total of 511 patients (559 knees) received 1771 injections in seven clinical trials of Synvisc. There were 39 reports in 37 patients (2.2% of injections, 7.2% of patients) of knee pain and/or swelling after these injections. Ten patients (10 knees) were treated with arthrocentesis and removal of joint offusion. Two additional patients (two knees) received treatment with intra-articular steroids. Two patients (two knees) received NSAIDs. One of these patients also received arthrocentesis. One patient was treated with arthroscopy. The remaining patients with adverse events localized to the knee received no treatment or only analgesics

Postmarket Experience: The most common adverse events reported have been pain, swelling and/o effusion in the injected knee. In some cases the effusion was considerable and caused pronounced pain. In some instances, patients have presented with knees that were tender, warm and red. It is important to In some instances, patients have presented with knees that were tender, warm and red. It is important to rule out infection or crystalline anthropathies in such cases. Sprovial fluid aspirates of varying volumes have revealed a range of cell counts, from very few to over 50,000 cells/mm². Reported treatments included symptomatic therapy (e.g., rest, ize, heat, elevation, simple analgesics and NSAIDs) and/or arthrocentesis. Intra-articular corticosteroids have been used when infection was excluded. Rarely, arthroscopy has been performed. The occurrence of post-injection effusion may be associated with patient history of effusion, advanced stage of disease and/or the number of injections a patient receives. Reactions generally abate within a few days. Clinical benefit from the treatment may still occur after such reactions.

such reactions. The clinical trials described above included 38 patients who received a second course of Synvisc injections (132 injections). There were twelve reports in nine patients (9.1% of injections, 23.7% of patients) of knee pain and/or swelling after these injections. Reports of two additional clinical trials in which patients received repeated courses of Synvisc treatment have appeared during the post-marketing period. One of these trials included 48 patients who received 210 injections during a second course of Synvisc treatment: the other contained 71 patients who received 211 injections during a second course of Synvisc treatment. A total of 157 patients have received 253 injections in the three clinical trials of repeated courses of Synvisc treatment. The reports in these trials describe a total of 48 reports of adverse events localized to the injected knee in 35 patients that occurred after injections that patients had received during their second course of treatment. These adverse events accounted for 6.3% of injections in 22.3%

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Pushtanket Experience. Oner adverse events reported includer fash, hives, icoling, lever, hadsada, ikoadacha, divisiness, chillis, muscle campo, paresthesia, peripheral edema, malaics, respiratory difficulties, flushing and facial swelling. There have been rare reports of thrombocytopenia coincident with Synvise injection. These medical events occurred under circumstances where causal relationship to Synvisc is uncertain. (Adverse events reported only in worldwide postmarketing experience, not seen in clinical trials, are considered more rare and are *italicized*.)

DETAILED DEVICE DESCRIPTION

Each syringe of Synvisc contains:	
lylan polymers (hylan A + hylan B)	
Sodium chloride	
Disodium hydrogen phosphate	0.32 mg
Sodium dihydrogen phosphate monohydrate	0.08 mg
Nater for injection	a.s. to 2.0 mL

HOW SUPPLIED Synvisc is supplied in a 2.25 mL glass syringe containing 2 mL Synvisc Product Number: 58468-0090-1 3 disposable syringes The contents of the syringe are sterile and nonpyrogenic.

DIRECTIONS FOR USE

Synvisc is administered by intra-articular injection once a week (one week apart) for a total of three injections.

Precaution: Do not use Synvisc if the package has been opened or damaged. Str (protected from light) at room temperature below 86°F (30°C). DO NOT FREEZE. Precaution: Strict aseptic administration technique must be followed. ed. Store in original packaging

Precaution: Do not concomitantly use disinfectants containing quaternary ammonium salts for skin

preparation because hyaluronan can precipitate in their presence. Precaution: Remove synovial fluid or effusion before each Synvisc injection Do not use the same syringe for removing synovial fluid and for injecting Synvisc, but the same needle should be used.

Take particular care to remove the tip cap of the syringe and needle aseptically

Twist the gray tip cap before pulling it off, as this will minimize product leakage

Inject Synvisc into the knee joint through an 18 to 22 gauge needle. To ensure a tight seal and prevent leakage during administration, secure the needle tightly while firmly holding the luer hub.

Precaution: Do not over tighten or apply excessive leverage when attaching the needle or removing the

needle guard, as this may break the tip of the syringe. Do not inject anesthetics or any other medications intra-articularly into the knee while administering Synvisc therapy. This may dilute Synvisc and affect its safety and effectiveness.

Preaution: The syringe containing Synvise and anect its safety and effectiveness. **By a set of the syringe containing Synvise is intended for single use.** The contents of the syringe must be used immediately after the syringe has been removed from its packaging. Inject the full 2 mL in one knee only. If treatment is bilateral, a separate syringe must be used for each knee. Discard any unused Synvisc.

This brief summary is based upon the current circular, 70230602, revised November 15, 2004

References: 1. Raynauld JP, Bellamy N, Goldsmith CH, Tugwell P, Torrance GW, Pericak D, et al. (2002) References: 1. Raynauto JP, Beilamy N, Goldsmith CH, IugWeil P, Torrance GW, Pericar U, Paria (2002). An evaluation of the safety and effectiveness of repeate courses of hylian GF-20 for treating patients with knee osteoarthritis. Sydney, Australia [Paper reference #PS128]. Presentation on File. 2. Leopold SS, Warrne WJ, Petris PD and Shott S. (2002). Increased frequency of acute local reaction to intra-articular Hylan GF-20 (Synvisc) in patients receiving more than one course of treatment. *J Bane Joint Surg*. 2002;484-(49): 1619-1623. **3.** Waddell DD, Estey DJ and Bricker D. (2001). Retrospective tolerance of Hylan GF-20 using fluoroscopically-confirmed injection and effectiveness of refreatment in knee osteoarthritis. Proceedings of the American College of Rheumatology Annual Meeting. 2001. Presentation on File. 142 patients (68%). Acute anterior uveitis was seen in 23 patients (16%), anterior recurrent uveitis in 17 (12%), and anterior uveitis with vitritis in 5 (4%).

The study also identified risk factors for the development of uveitis. These included age younger than 6 years at diagnosis, antinuclear antibody (ANA) positivity, and oligoarticular disease.

The highest rate of uveitis (21%) occurred in the subgroup of patients with oligoarticular disease, a finding that is in line with other reports, according to Dr. Saurenmann, who is currently in the department of pediatrics, University Children's Hospital, Zürich.

Among patients with rheumatoid factor (RF)-negative polyarticular JIA, 32 (14%) developed uveitis, but none of the patients with polyarticular RF-positive JIA developed the ocular condition. Only one patient with systemic JIA developed uveitis, and that was during the onset of systemic disease during a period of severe systemic inflammation. The symptoms responded promptly to topical treatment.

Previous studies have found a higher prevalence of uveitis among girls than among boys with JIA. In this investigation, however, gender did not remain a significant predictive factor after Cox regression analysis. "This result suggests that the increased prevalence of uveitis in females with JIA is a result of the female predominance in young-onset oligoarticular JIA and of a higher percentage of females with ANA positivity," the investigators wrote.

The relative contribution of risk factors to the development of uveitis in the different subtypes of JIA also was analyzed. ANA positivity was associated with a risk of uveitis in patients with RF-negative polyarticular disease, enthesitis-related arthritis, and persistent oligoarthritis. The association was not seen in patients with psoriatic or extended oligoarticular JIA. This latter condition refers to oligoarticular disease that evolves into polyarticular disease after 6 months, according to current classification by the International League of Associations for Rheumatology.

The uveitis was mild and self-limited, requiring no topical treatment, in 11 (8%) of patients. Two of these patients were receiving systemic medications, one with methotrexate and the other with corticosteroids. Topical corticosteroids were prescribed for 129 patients (91%), mydriatics for 86 (61%), and topical nonsteroidal anti-inflammatory drugs (NSAIDs) for 33 (23%). Systemic medications included NSAIDs in 139 patients (98%), methotrexate in 63 (44%), corticosteroids in 39 (28%), and tumor necrosis factor– α blockers in 16 (11%).

Combination therapy was needed to control severe articular disease in 10 patients, refractory uveitis in 7 patients, and both articular and ocular disease in 3.

Complications of uveitis developed in 53 (37%) patients. These included cataracts, synechiae, glaucoma, band keratopathy, and macular edema.

The authors recommended that aggressive immunosuppressive treatment be instituted early in these patients to prevent prolonged ocular inflammation.