Osteoporosis Rheumatology News • June 2008

REMICADE-maintenance experienced elevations in ALT at >1 to <3 times the ULN compared to 34% of patients treated with placebo-maintenance. ALT elevations ≥3 times the ULN were observed in 5% of patients who received REMICADE-maintenance compared with 4% of patients who received placebo-maintenance. In UC clinical trials (median follow up 30 weeks. Specifically, the median duration of follow-up was 30 weeks for placebo and 31 weeks for REMICADE. In UC clinical trials (median follow up 30 weeks. Specifically, the median duration of follow-up was 30 weeks for placebo and 31 weeks for REMICADE. Power of patients who received REMICADE compared to 12% of patients treated with placebo. ALT elevations ≥3 times the ULN were observed in 2% of patients who received REMICADE compared with 1% of patients who received placebo. ALT elevations ≥5 times ULN were observed in <1% of patients two received placebo. ALT elevations ≥5 times ULN were observed in <1% of patients receiving REMICADE experienced elevations in ALT at >1 to <3 times the ULN compared to 15% of patients treated with placebo. ALT elevations ≥3 times the ULN were observed in 10% of patients who received REMICADE compared to none in patients who received placebo. ALT elevations ≥5 times ULN were observed in 4% of patients who received REMICADE compared to none in patients who received placebo. ALT elevations ≥5 times ULN were observed in 4% of patients who received REMICADE compared to none in patients who received placebo. ALT elevations ≥5 times ULN were observed in 7% of patients who received REMICADE compared to none in patients treated with placebo. In a PSA clinical trial (median follow up 39 weeks for REMICADE good and 15 weeks in placebo group) 50% of patients receiving REMICADE experienced elevations in ALT at >1 to <3 times the ULN were observed in 7% of patients who received REMICADE compared to none in patients treated with placebo. ALT elevations ≥5 times ULN were observed in 7% of patients who received REMICADE compared to none in patients treated HEMICALE through of wheeleds than in 385 adult CD patients receiving a similar treatment regimes, among (17%), backed in adult (17%), activation (17%), and treatment (17%), backed in adult (17%), and the second (17%), an infusion reactions should be dictated by the signs and symptoms of the reaction. Appropriate personnel and medication should be available to treat anaphylaxis if it occurs.

REFERENCES: 1. Am J Respir Crit Care Med. 2000;161:S221–S247. **2**. See latest Centers for Disease Control guidelines and recommendations for tuberculosis testing in immunocompromised patients. **3**. Gardam MA, Keystone EC, Menzies R, et al. Anti-tumor necrosis factor agents and tuberculosis risk: mechanisms of action and clinical management. *Lancet Infact Dis*. 2003;3:148-155. **4**. Belhadj K, Reyes F, Farcet JP, et al. Hepatosplenic γδ T-cell lymphoma is a rare clinicopathologic entity with poor outcome: report on a series of 21 patients. *Blood*. 2003;102(13):4261-4269.

© 2007 Centocor, Inc.
Malvern, PA 19355, USA
1-800-457-6399

evised April 2007 IN07515

Does Birth Month Play a Role in BMD Later in Life?

BY NANCY WALSH

New York Bureau

LIVERPOOL, ENGLAND — Maternal exposure to sunlight in late pregnancy can have a beneficial influence on the offspring's bone mineral density in later life, Dr. Nicola J. Goodson said at the annual meeting of the British Society for Rheumatology.

"In the United Kingdom, the main dietary sources of vitamin D are fish and fortified margarine, but more than 90% of the vitamin is obtained by casual exposure to the sun, and because of the latitude the majority of the population is vitamin D deficient for much of the year," said Dr. Goodson of University Hospital Aintree, University of Liverpool (England).

Birth records and dual-energy x-ray absorptiometry (DXA) scan results were examined for 15,042 women and 2,160 men from the Morecambe Bay catchment district. The mean age was 62 years.

At the latitude of this district, 54 degrees north, the months with adequate sunlight are May through September. Patients therefore were categorized as having infant sunlight exposure if their birth months were between March and September and they could be expected to have at least 1 month of exposure to ultraviolet B light in the first 3 months of life. They were classified as antenatal exposure if their birth months were between May and November and they had at least 1 neonatal month of exposure to sunlight, said Dr. Goodson.

Overall, 51% of patients had BMD in the normal range. As expected, women

had lower mean T scores, at -1.7, than did men, at -0.91, she said.

Analysis of sunlight exposure in the first 3 months of life and normal BMD, after adjustment for age at the time of the DXA scan, found no significant association, with an odds ratio (OR) of 1.

In contrast, for those categorized as antenatal exposure, there was a modest association with normal bone mineral density in adulthood, with an OR of 1.16, Dr. Goodson said. Those patients who had antenatal sunlight exposure also were likely to have osteopenia or osteoporosis: Those who were osteopenic had a 12% reduced odds of antenatal exposure and those who were osteoporotic had a 19% reduced odds of antenatal exposure, she said.

These associations were only seen among women.

In a separate analysis for those whose DXA scans were done before age 50, there was no association of early life sunlight exposure in either men or women. However, in these younger patients there was a very strong association of early life, rather than antenatal, exposure with osteoporosis. "Those patients in the osteoporotic range had a 49% reduced odds of having a birth month that enabled antenatal exposure to UVB," she said.

In summary, she said, adult BMD was associated with birth month in this unselected DXA cohort.

"Maternal vitamin D levels should be optimized, particularly during the third trimester, either by diet or by safe UV exposure," Dr. Goodson said.

New ACP Guideline Urges Osteoporosis Screening in Men

BY SHERRY BOSCHERT

San Francisco Bureau

Clinicians should assess older men for risk factors for osteoporosis and measure bone density by dual-energy x-ray absorptiometry if any risk factors are present, a new guideline from the American College of Physicians recommends.

How old is "older" is left open to interpretation and is one point of difference between the ACP guideline and guidelines issued by the National Osteoporosis Foundation (NOF) in February 2008.

The new NOF guidelines include screening and treatment in men as well as women, and recommend bone density testing in men aged 50-69 who have risk factors for osteoporosis and in all men aged 70 or older (RHEUMATOLOGY NEWS, May 2008, p. 1).

The ACP guidelines (Ann. Intern. Med. 2008;148:680-4) focus specifically on screening in men and notes the appropriate age at which to start risk assessment is uncertain. The medical evidence in the literature shows that by 65, at least 6% of men have osteoporosis proved by dual-energy x-ray absorptiometry (DXA), Dr. Amir Qaseem said in an interview.

The ACP plans to issue a separate new

guideline for treating osteoporosis in men in the near future, added Dr. Qaseem, lead author of the guideline and a senior medical associate for the ACP.

The main risk factors for osteoporosis in men are age older than 70, a body mass index of $25~{\rm kg/m^2}$ or less, weight loss greater than 10% of what would be expected, physical inactivity (no regular walking, climbing stairs, carrying heavy objects, housework, or gardening), corticosteroid use, androgen deprivation therapy, or previous fracture related to fragility, the report states.

The new ACP guideline is based on a systematic review of evidence published in 1990-2007 conducted by the federal Agency for Healthcare Research and Quality's evidence-based practice center in Southern California.

The prevalence of osteoporosis is estimated to be 7% in white, 5% in black, and 3% in Hispanic men, Dr. Qaseem noted. Over the next 15 years the rate of osteoporosis in U.S. men is expected to increase by half, with a doubling or tripling of hip fracture rates by 2040.

The prevalence of osteoporosis in Asian American men and other ethnic groups is unknown because of a lack of data. More research is needed, the guideline states.