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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. ALT elevations ≥5 times ULN were observed in 2% of patients who received REMICADE-maintenance compared to none in patients treated with 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.), 17% of patients receiving REMICADE experienced elevations in ALT at >1 to <3 times the ULN compared to 12% of patients treated with placebo. ALT elevations ≥3 times the ULN were observed in 2% of patients who received placebo. ALT elevations ≥5 times ULN were observed in 2% of patients who received placebo. ALT elevations ≥5 times ULN were observed in 2% of patients who received REMICADE compared to 15% of patients reated with placebo. ALT elevations ≥6 times ULN were observed in 2% of patients who received REMICADE experienced elevations in ALT at >1 to <3 times the ULN compared to 15% of patients treated with placebo. ALT elevations ≥5 times ULN were observed in 10% of patients who received REMICADE compared to none in patients treated with placebo. ALT elevations ≥5 times ULN were observed in 4% of patients who received REMICADE compared to none in patients treated with placebo. ALT elevations ≥6 times ULN compared to 16% of patients who received REMICADE compared to 16% of patients treated with placebo. ALT elevations ≥3 times the ULN were observed in 2% of patients who received REMICADE compared to 16% of patients who received REMICADE compared to none in patients who received REMICADE compared to none in patients who receive elevations so times ut uwere observed in 2% of patients wino received HEMICAUE compared to none in patients treated with placebo. In 1% of patients with readian follow-up of 50 weeks for FREMICAUE and 16 weeks for placebo, 14% of patients with receiving AEMICADE experienced elevations in ALT at 1 to 3 times the ULN compared to 24% of patients treated with placebo. ALT as X LUIN were observed in 7% of patients who received patients between the patients receiving patients treated with placebo. Autorized patients received patients received patients received patients and 16% of patients with compared to those in patients treated with placebo. Autorized patients received patients are commonly in 103 anadomized patients CO patients administered 5 mg/kg REMICADE through 54 weeks than in 385 adult CD patients receiving a similar retardment regimen a-main (11%), blood in stool (10%), elustopenia (9%), flushing (9%), viral infection (9%), and respectively), while service of adult patients in Study Chornis. In Isruby 496s Chornis, infections were reported in 56% of randomized pediatric patients in Study Potents. In Study 260s Chornis, infections were reported of 67% and patients with received every 8 week as opposed to every 12 week intuitions (74% and 38%, respectively), while services infections were reported for 3 patients in the every 8 week and 4 patients in the every 12 week intuitions (74% and 38%, respectively), while services were upper respirately tract infection and pharyngists in the every 8 week and 16% of 16% patients and 16% of 2 patients in the every 8 week maintenance treatment groups. In Study 26% of 16% of 2 patients in the week maintenance treatment groups in Study 26% of 16% of 2 patients in the every 8 week maintenance treatment groups. In Study 26% of 16% of 2 patients in the every 8 week maintenance treatment groups and 16% patients in the 26% of 16% of neuropathy, dizziness; *Heart Rate and Rhythm*: arrhythmia, bradycardia, cardiac arrest, tachycardia; *Liver and Biliary*: biliary pain, cholecystitis, choelithiasis, hepatitis; *Metabolic and Nutritional*: dehydration; *Musculoskelatal*: intervertebral disk hemiation, tendon disorder; *Myo-, Endo-, Pericardial*, *and Coronary Valve*: myocardial infarction; *Platelet, Bleeding, and Clotting*: thrombocytopenia; *Neoplasms*: basal cell, breast, lymphoma; *Psychiatric*: confusion, suicide attempt; *Red Blood Cell*: anemia, hemolytic anemia; *Reproductive*: menstrual irregularity; *Resistance Mechanism*: cellulitis, sepsis, serum sickness; *Respiratory*: adult respiratory distress syndrome, lower respiratory tract infection (including pneumonia), pleural effusion, pleurisy, pulmonary edema, respiratory insufficiency; *Skin and Appendages*: increased sweating, ulceration; *Urinary*: renal calculus, renal failure; *Vascular* (*Extracardiac*): brain infarction, pulmonary embolism, thrombophiebitis; *White Cell and Reticuloendothelia*: leukopenia, lymphadenopathy. **Post-marketing Adverse Events** The following adverse events, some with fatal outcome, have been reported during post-approval use of REMICADE: neutropenia (see *WARNINGS*, *Hematologic Events*), interstitial lung disease (including pulmonary fibrosis/ interstitial pneumonitis and very rare rapidly progressive disease), idiopathic thrombocytopenic purpura, thrombotic thrombocytopenic purpura, pericardial effusion, systemic and cutaneous vasculitis, erythema multiforme, Stevens-Johnson Syndrome, toxic epidermal necrolysis, peripheral demyelinating disorders (such as Guillain-Barré syndrome, chronic inflammatory demyelinating polyneuropathy, and multifocal motor neuropathy), pooriasis (including new onset and pustular, primarily palmar/plantar), transvers-queltis, and cholestasis (see *WARNINGS*, *Hepatotoxicity*). Because these events are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or should be dictated by the signs and symptoms of the reaction. Appropriate personnel and medication should be available to treat anaphylaxis if it occurs.

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Nurses Health Study: SLE Doubles Heart Disease Risk

BY SALLY KOCH KUBETIN

Publication Editor

SAN FRANCISCO — Systemic lupus erythematosus more than doubles a woman's relative risk for cardiovascular disease beyond the effect of traditional determinants, judging from the Nurses Health Study findings.

Earlier research reports have found a significantly greater than twofold increased risk for cardiovascular disease in women with lupus. However, those studies examined risk in lupus populations receiving care at tertiary care centers. The data from this study came from a study of the general population, according to investigator Dr. A. Elisabeth Hak.

The Nurses Health Study includes 121,700 women who enrolled in the prospective cohort study in 1976, when they were between 30 and 55 years old. They had no cardiovascular disease (CVD) or SLE at enrollment. Over 28 years, 148 developed SLE. Hypertension, diabetes, family history of CVD, and NSAID use were more common in the women with SLE and heart disease than in the SLE-free women with heart disease.

There were 20 cases of CVD (16 cases of heart disease and 4 strokes) among the women with SLE and 8,149 (6,254 cases of

heart disease and 1,895 strokes) among the non-SLE group, said Dr. Hak, reporting on the investigation she conducted while at Brigham and Women's Hospital, Boston. Based on follow-up of 2,082 person-years for the women with SLE and 2,932,407 person-years for the SLE-free women, the incidence of CVD was 961 cases per 100,000 person-years for the SLE group and 271 per 100,000 person-years for the non-SLE group.

The age-adjusted relative risk for CVD was 2.75 in the SLE group, versus the non-SLE group. The multivariate-adjusted relative risk was 2.26 in the SLE women relative to the women without SLE after controlling for medication use, age, hypertension, race, diabetes, and serum lipid levels, reported Dr. Hak, now at Erasmus University Medical Centre, Rotterdam (the Netherlands).

The fact that the study enrolled women aged 30-55 years means that it excluded those with younger-onset SLE, in whom CVD may have been more common and severe, she noted at the annual meeting of the American College of Rheumatology. The findings also may have been affected by the fact that the cohort is overwhelmingly white.

Dr. Hak reported having no financial conflicts of interest.

Proinflammatory HDL May Be Atherosclerosis Biomarker

BY SALLY KOCH KUBETIN

Publication Editor

SAN FRANCISCO — Proinflammatory HDL cholesterol has promise as a biomarker for atherosclerosis in women with systemic lupus erythematosus.

Findings from a study of 274 women with systemic lupus erythematosus (SLE) and 154 age-matched controls showed that serum levels of proinflammatory HDL cholesterol were likely to be elevated in women found by B-mode ultrasound to have thickened carotid intima, indicative of plaque. Although this association was noted in both the women with SLE and controls, it was stronger in the women with lupus, said Dr. Maureen A. McMahon, a rheumatologist at the Ronald Reagan UCLA Medical Center, Los Angeles.

In particular, carotid artery plaque was found in 16% of the women with lupus and 15% of the women in the control group. Of the women with lupus who had plaque, 80% had measurable proinflammatory HDL cholesterol, compared with 43% of the women with SLE but no plaque. Proinflammatory HDL was found in 44% of the healthy women with plaque, compared with 10% of healthy plaque-free women.

The mean carotid intimal thickness was 0.57 mm² for the women in the SLE group versus 0.51 mm² for the controls, a statistically significant difference. The mean

levels of proinflammatory HDL were highest in the women in the highest quartile for carotid intimal thickness, defined as being greater than 0.67 mm².

Women with SLE had significantly higher rates of hypertension and diabetes, compared with the controls on univariate analysis. However, age and current cigarette smoking were the only other significant risk factors for plaque in these women, according to multivariate analysis, Dr. McMahon said at the annual meeting of the American College of Rheumatology.

Paraoxonase (PON) activity or apolipoprotein A-I did not predict atherosclerosis. Traditional risk factors for atherosclerosis such as hypertension, LDL cholesterol, and other protective components for HDL cholesterol were found not to be surrogates for proinflammatory HDL.

Women with SLE have long been known to have an unexplained increased risk for atherosclerosis. Until now, the underlying mechanisms have not been explained.

None of the women had taken statins within the 3 months preceding the study.

Levels of proinflammatory HDL cholesterol are "remarkably stable" in women with lupus, Dr. McMahon said. Thus, levels do not increase and decrease depending on disease activity, she added, noting this has is not the case in RA.

Dr. McMahon reported that she has no financial conflicts of interest.