

Efficacy Sustained Over 2 Years

Abatacept from page 1

group and 0.75 in the placebo group, Dr. Genant reported.

Measures of clinical efficacy also showed durable responses during the second year of therapy, Dr. Joel M. Kremer reported in a poster session at the meeting, sponsored by the European League Against Rheumatism.

At year 1, 82% of patients who had received abatacept plus methotrexate achieved American College of Rheumatology (ACR) 20 responses, 54% achieved

ACR 50 responses, and 32% achieved ACR 70 responses.

The corresponding numbers at year 2 were 80%, 56%, and 34%, according to Dr. Kremer of Albany (N.Y.) Medical College.

By the end of the long-term extension phase of the trial, patients who initially got placebo but had been receiving abatacept for 1 year had similar clinical responses to those who had been receiving the active treatment for 2 years, with 78% achieving ACR 20 responses, and 58%

and 32% achieving ACR 50 and 70 responses, respectively.

Remission, defined as a score of less than 2.6 on the Disease Activity Score (DAS 28), was reached by 25.4% of patients in the abatacept group at year 1, compared with 2.5% of those in the placebo group, according to Dr. Kremer. By the end of year 2, rates of remission were similar in the two groups, regardless of initial randomization, at 30.9% and 32.6% in the active treatment and placebo groups, respectively.

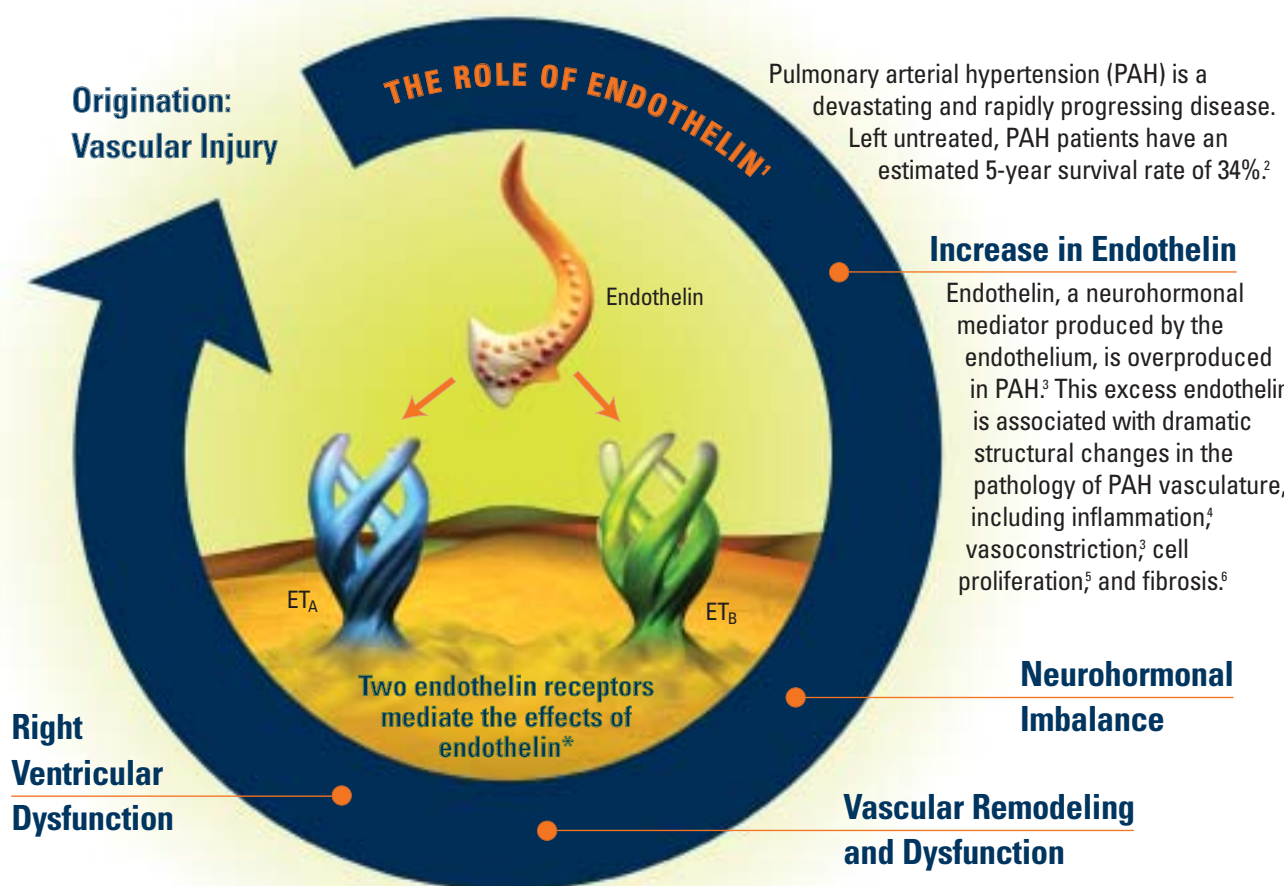
Dr. Genant has received consulting fees from Synarc, and Dr. Kremer has received research grants and consulting fees from Bristol-Myers Squibb. ■



Figures, from top to bottom, represent a single abatacept-treated patient's radiographs of the left hand at day 1 (baseline), day 365 (year 1), and day 730 (year 2), showing moderate joint damage, which is stable or non-progressive over the 2-year interval.

PHOTOS COURTESY DR. HARRY K. GENANT

Endothelin's Role in the Rapid Progression of Pulmonary Arterial Hypertension



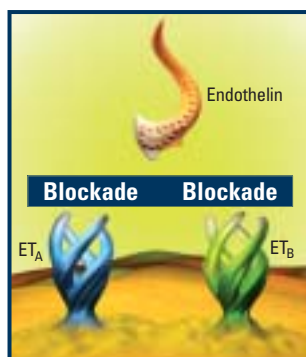
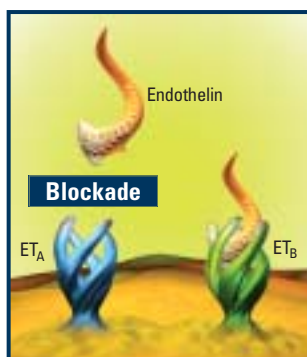
Blockade of Both ET_A and ET_B Receptors Is Critical

ET_A Activity in PAH*

Cell proliferation⁵
Vasoconstriction³
Inflammation⁴

ET_B Activity in PAH*

Cell proliferation⁵
Vasoconstriction³
Inflammation⁴
Fibrosis⁶
Hypertrophy⁶



To learn more about the effects of endothelin in pulmonary arterial hypertension, please visit www.endothelinscience.com

*Statements are based on observations reported from in vitro or animal trials.

1. Gaine SP, Rubin LJ. Primary pulmonary hypertension. *Lancet*. 1998;352:719-725. 2. D'Alonzo GE, Barst RJ, Ayres SM, et al. Survival in patients with primary pulmonary hypertension. Results from a national prospective registry. *Ann Intern Med*. 1991;115:343-349. 3. Miyauchi T, Masaki T. Pathophysiology of endothelin in the cardiovascular system. *Annu Rev Physiol*. 1999;61:391-415. 4. Muller DN, Mervaala EM, Schmidt F, et al. Effect of bosentan on NF-kappaB, inflammation, and tissue factor in angiotensin II-induced end-organ damage. *Hypertension*. 2000;36:282-290. 5. Davie N, Haleen SJ, Upton PD, et al. ET(A) and ET(B) receptors modulate the proliferation of human pulmonary artery smooth muscle cells. *Am J Respir Crit Care Med*. 2002;165:398-405. 6. Giaid A, Yanagisawa M, Langleben D, et al. Expression of endothelin-1 in the lungs of patients with pulmonary hypertension. *N Engl J Med*. 1993;328:1732-1739.



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