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(21) International Application Number: PCT/US96/04553 (22) International Filing Date: 3 April 1996 (03.04.96) (30) Priority Data: 08/415,488 ✓ 3 April 1995 (03.04.95) ✓ US (71) Applicant: BONE CARE INTERNATIONAL, INC. [US/US]; 313 West Beltline Highway, Madison, WI 53713 (US). (72) Inventors: KNUTSON, Joyce, C.; 24 North Prospect Avenue, Madison, WI 53705 (US). MAZESS, Richard, B.; 2526 Gregory Street, Madison, WI 53711 (US). BISHOP, Charles, W.; 5 LaPointe Terrace, Madison, WI 53719 (US). (74) Agents: WELCH, Teresa, J. et al.; Stroud, Stroud, Willink, Thompson & Howard, Suite 300, 25 West Main Street, P.O. Box 2236, Madison, WI 53701-2236 (US).		(81) Designated States: AU, BR, CA, CN, FI, HU, JP, KR, MX, NO, NZ, PL, <u>SG</u> , European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: USE OF VITAMIN D ₂ OR VITAMIN D ₄ -DERIVATIVES FOR THE MANUFACTURE OF A MEDICAMENT FOR THE TREATMENT OF SECONDARY HYPERPARATHYROIDISM (57) Abstract A method for preventing loss of bone mass or bone mineral content in a human being suffering from secondary hyperparathyroidism by administering a sufficient amount of 1 α -OH vitamin D ₂ , 1 α ,24(S)-(OH) ₂ vitamin D ₂ , 1 α -OH vitamin D ₄ or 1 α ,24(R)-(OH) ₂ vitamin D ₄ .		

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