NERIDRONATE IN THE TREATMENT OF THALASSEMIA-INDUCED OSTEOPOROSIS

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More than the 50% of thalassemic population has osteoporosis and an increased fracture risk. The aetiology is multifactorial and culminates in an altered bone remodelling characterized by an accelerated bone resorption despite the optimal hormonal replacement therapy. This represents the rationale for the use of the most potent bone antiresorptive drugs, the bisphosphonates. In fact previous studies showed good results with the use of alendronate, but with poor compliance due to oral administration and high level of drop-outs.

To evaluate the effects of neridronate intramuscularly and cyclically administered, on bone remucation markers and BMD in this particular form of osteoporosis.

Study population was formed by 30 thalassemic patients (n, an age 29+-7 yr, with EME < 2.5 DS), randomly divided in two groups to assume for 12 rooms. Neridionate 25 mc incovery month and 1 gr of Calcium and 800 IU of Vitamin D every day (group A, 15 patients) or on v calcium and vitamin D (group B, 15 patients). At base line and after 2 months we measured vertet rol and femoral BMD by DXA (Hologic QDR 4500). Moreover a tage line, at 6 and 1? months boll e remodelling parameters (ALP and D-PYR) were evaluated.

Group A, tee'ed with Neridronau, thower a significant increase of BMD with respect to placebo both at the (5% p=0.01) and the oral level (+4%, p=0.01). Bone remodelling indexes significantly reduced after te it months and temain ed suppressed after 12 months with respect to basal values only in group A.

On the tasks of our data the administration of Neridronate 25 mg monthly, intramuscularly, is efficacious in the treatment of thalassemia-induced osteoporosis, well tolerated and with a optimal compliance.