VITAMIN D LEVELS IN IMMOBILIZED **SPANISH ADULTS.** THE CAMARGO **COHORT STUDY**

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OBJECTIVE

 To determine serum 25-Hydroxivitamin D (250HD) and intact parathyroid hormone (PTH) levels in an immobilized population from northern Spain

PATIENTS AND METHODS

 A total of 125 immobilized people (37 men and 88 women) aged 53 to 101 yrs. (85±8 yrs.) were studied

 Seventy-five percent of the subjects lived at home, the remaining 25% residing in nursing homes

PATIENTS AND METHODS

- None of the patients received antiresorptive therapy, corticosteroids or vitamin D supplements
- Serum 250HD and PTH levels were measured by the Elecsys 2010 automated analyzer (Roche)

- Median 25(OH)D and PTH values are shown in table 1
- 250HD levels were similar in both sexes
- People who lived at home had a 250HD concentration greater than nursing home residents

 PTH levels were also similar in both sexes and no differences were seen between people living at home and nursing home residents

 Fifty-six percent of the subjects had values over 65 pg/ml (the upper limit of normality)

Table 1. Vitamin D and PTH levels in immobilized patients

	Total (125)	At home (93)	Nursing home (32)
Age	85 ± 8	85 ± 9	84 ± 7
Sex (M/F)	30/70%	27/73%	37/63%
25(OH)D (ng/ml)	10.4 [4.4-13.9]	11.4 [5.2-17.0]	7.5 [3.2-10.3]*
PTH (pg/ml)	80.5 [49.3-92.7]	79.4 [50.4-90.5]	83.5 [47.6-102.4]

* p<0.01

Figure 1. Prevalence of Vitamin D insufficiency and deficiency in immobilized patients

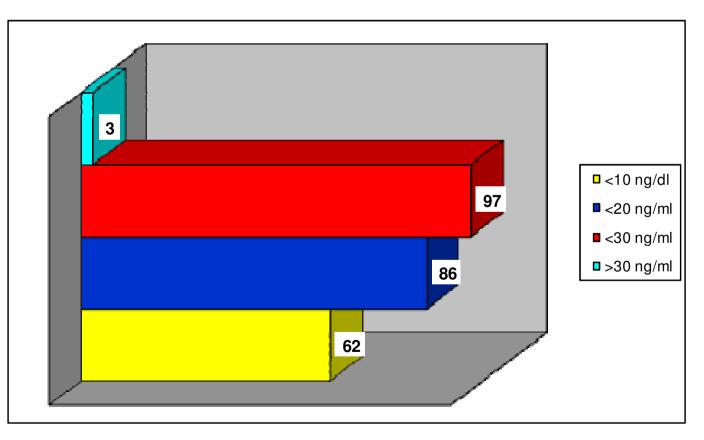
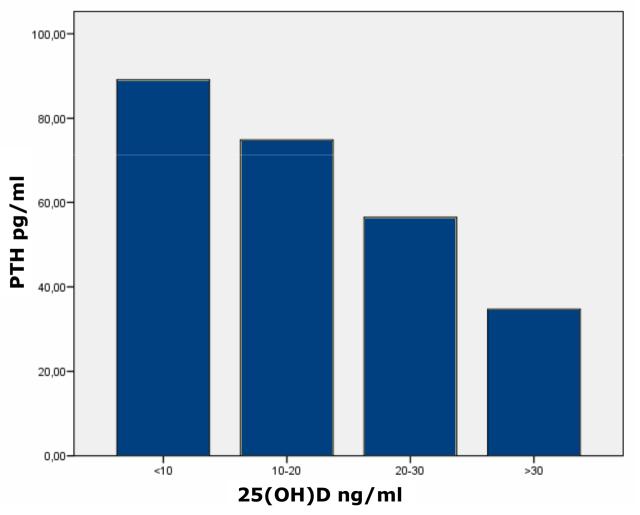


Figure 2. Mean PTH values in the different strata of vitamin D



CONCLUSIONS

 Vitamin D insufficiency and deficiency are very common among Spanish immobilized adults

 Mean PTH levels lie around 80 pg/ml, a value that is above the upper limit of normality for this hormone