of antiresorptive therapy, especially when bisphosphonates are administered. Studies with alendronate show an inverse correlation between BMD gain and vitamin D status.\(^1\)

In conclusion, vitamin D deficiency is often not considered during the work-up of osteoporosis, despite its high prevalence. As part of a correct evaluation of possible secondary causes of low bone mass, we recommend the assessment of vitamin D status by measuring the 25OHD concentration in all individuals with suspicion of osteoporosis.

Conflict of interest

All authors declare no support from any organization for the submitted work; no financial relationships with any organizations that might have an interest in the submitted work and no other relationships or activities that could appear to have influenced the submitted work.

References


Georgios Kyriakos\(^a\*\), Alfonso Vidal-Casasiriego\(^a\)
Maria Nélida Fernández-Martínez\(^b\)
Isidoro Cano-Rodríguez\(^a\)

\(^a\) Department of Endocrinology and Nutrition, Complejo Asistencial Universitario de León, Spain
\(^b\) Division of Pharmacology, Institute of Biomedicine (IBIOMED), University of León, Spain

*Corresponding author.
E-mail address: giorgos6@yahoo.com (G. Kyriakos).

http://dx.doi.org/10.1016/j.endonu.2015.09.002

The need of travelling to another city to be attended in a Hospital Clinic for obesity. Does it affect to the adequacy of referrals from Primary Care?

¿Afecta la necesidad de desplazamiento a otra ciudad para ser valorado en una consulta hospitalaria de obesidad en la adecuación de las derivaciones desde atención primaria?

Dear Editor,

Obesity is one of the main problems for our Public Health System today. The prevalence of obesity and overweight in adults in Spain is 22.9% and 39.4% respectively.\(^1\) Obesity causes 1 of every 13 deaths in Europe and it is the second cause of evitable mortality behind smoking.\(^2\) The treatment of obesity always includes hypocaloric diets, exercise, changes in one’s way of life and regular medical visits.\(^3\) If the results after the previous treatments are not good, the pharmacological treatments are limited in Europe,\(^4\) so that, patients with body mass index (BMI) ≥ 35 kg/m² may be referred to a Hospital Clinic. In these patients, we can consider a very-low calorie diet and bariatric surgery.\(^5\)

It is known that referrals to a Hospital Clinic from Primary Care are not homogeneous and, one important factor of this is the need to travel to another city to be attended.\(^6\) The aim of our study was to know if the need to travel to another city to be attended in a Hospital Clinic for obesity may affect to the adequacy of referrals from Primary Care.

52 213 inhabitants located in the southeast of Castilla-La Mancha are attended in our hospital. 25 024 inhabitants live in the same city where the hospital is located, but 27 389 live in other cities and these people need to travel between 50 and 60 km to be attended in our Hospital. The study was based on a retrospective design and the following variables were collected: age (years), BMI (kg/m²), type of obesity, adequacy of referrals (BMI ≥ 35 kg/m²), and need to travel to be attended (a patient who lives in the same city where the Hospital is located or in a different city) for each of the patients referred because of their obesity or overweight from Primary Care to our Hospital Clinic in first visit in 2014.

Qualitative variables were expressed as absolute and relative frequency. Quantitative variables were expressed as mean, standard deviation, and range. The 7-Student test
was used to compare quantitative variables and the Chi-square test to compare proportions between two groups (same city versus different cities). A p value < 0.05 was considered statistically significant.

The study included 131 patients who were referred from Primary Care for not-complicated obesity, who were attended in less than 30 days in our Hospital in their first visit in 2014. Patients who were referred from Hospital Care and patients with complications related to obesity are not included in this study.

The clinical characteristics of all subjects are shown in Table 1. The age mean value was 47 ± 16 years [14-80] and their BMI was 36.4 ± 5.2 kg/m² [25.3-51.5]. 11 patients (8.4%) suffered from overweight; 37 patients (28.2%) suffered from type 1 obesity; 55 patients (41.9%) suffered from type 2 obesity; 25 patients suffered from type 3 obesity; and 3 patients (2.3%) suffered from type 4 obesity. 96 patients (73.3%) live in the same city where the Hospital is located (1 patient of every 260 inhabitants) and 35 patients (26.7%) live in different cities (1 patient of every 782 inhabitants). 83 patients (64.1%) had been referred correctly (BMI ≥ 35 kg/m²). The study failed to show statistically differences between groups (same city vs different cities) regarding age, BMI, type of obesity or adequacy of referrals (61.5% in the same city vs 71.4% in different cities). The fact of not finding any statistically significant difference despite of the big difference in the number of referrals (1 patient of every 782 inhabitants versus 1 patient of every 260 inhabitants) leads us to two important conclusions.

The first conclusion is that we have to find out a clinical pathway to reduce the number of patients incorrectly referred (35.9% in our study) and we have to look for new ways (tele-assistance, for example) to assist patients who cannot be attended in our hospital. With the use of this clinical pathway and new ways to assist, we have to improve the quality and accessibility of our attention to these patients.

**Conflict of interest**

All authors of this manuscript state that there is no conflict of interest in relation to the same.

**References**


Pedro J. Pinés-Corrales*, Pilar Ibáñez-Navarro, Ángela Vicente-Albiñana

*Corresponding author.
E-mail address: pjpines@sescam.jccm.es

http://dx.doi.org/10.1016/j.endonu.2015.08.003