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**Comments on
«Hipercarotinemia after
bariatric surgery»[☆]**

**Comentarios a «Hipercarotinemia tras cirugía
bariátrica»**

Sir,

With regard to the letter to the editor by Soblechero-Martín et al. in this issue, referring to the case report recently published in ENDOCRINOLÓGIA Y NUTRICIÓN and described by our group,¹ we first of all want to thank the authors for their enriching contribution. Second, we would like to clarify some issues.

According to their comments, blood carotenoid and retinyl ester levels were regrettably not measured. In addition, retinol levels were not available at the time the patient attended the emergency room for skin hyperpigmentation. However, the interpretation of vitamin A biochemical measurements is difficult because they may be modified by various circumstances such as decreased retinol binding protein (RBP) levels or retinoid treatment itself.² Low RBP levels could therefore have resulted in falsely low vitamin A levels, leading to long-term supplementation with high vitamin A doses.

On the other hand, although no detailed quantification of the amount of carotenoids taken by the patient was made using food composition tables, the detailed dietary survey performed showed no excess consumption. Moreover, a very weak correlation has been reported between vitamin A intake and serum levels.³

On the other hand, other causes of carotenodermia such as hypothyroidism, diabetes mellitus, anorexia nervosa, nephrotic syndrome, or liver disease were excluded.



Patricia Soblechero Martín*, Fernando Granado Lorencio, Encarnación Donoso Navarro, M. Ramona de los Ángeles Silvestre Mardomingo

Servicio de Bioquímica Clínica, Hospital Universitario Puerta de Hierro-Majadahonda, Majadahonda, Madrid, Spain

* Corresponding author.

E-mail address: [\(P. Soblechero Martín\).](mailto:patriciasoblechero@gmail.com)

Finally, it should be noted that the patient's symptoms, as well as the yellowish pigmentation of the palm of her hand, disappeared after the vitamin A dose was reduced. Therefore, despite the limitations and lack of biochemical measurements due to the unexpectedness of the finding, the timing of the events and the clinical picture led us to attribute the symptoms to treatment with vitamin A, especially given the reversibility of the condition after a substantial reduction of the dose administered. Because of this and the uncommon presentation of the dermatological lesions, we considered the case to be of interest and one worth sharing.

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Sonsoles Gutiérrez Medina*, Paloma Iglesias Bolaños, Amalia Paniagua Ruiz, María Blanca Martínez-Barbeito

Endocrinología y Nutrición, Hospital Rey Juan Carlos, Móstoles, Madrid, Spain

* Corresponding author.

E-mail address: [\(S. Gutiérrez Medina\).](mailto:sonsogm@hotmail.com)

[☆] Please cite this article as: Gutiérrez Medina S, Iglesias Bolaños P, Ruiz AP, Martínez-Barbeito MB. Comentarios a "Hipercarotinemia tras cirugía bariátrica". *Endocrinol Nutr.* 2016;63:375