



Association between vitamin D deficiency and long hospital stay in geriatric acute care unit: results from a pilot cohort study

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Titre	Association between vitamin D deficiency and long hospital stay in geriatric acute care unit: results from a pilot cohort study
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Auteur	Beauchet, Olivier [1], Launay, C. P [2], Maunoury, F. [3], de Decker, Laure [4], Fantino, Bruno [5], Annweiler, Cédric [6]
Type	Article scientifique dans une revue à comité de lecture
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Mots-clés	hospital stay [7], hypovitaminosis d [8], Inpatients [9], older inpatients [10], older-adults [11], Vitamin D Deficiency [12]
Résumé en anglais	<p>Finding a biomarker of long length-of-stay (LOS) would provide a simple solution to target frail older inpatients at such risk. The aim of this study was to determine whether serum 25-hydroxyvitamin D (25OHD) deficiency, defined as serum concentration <25 nmol/L, was associated with long LOS among inpatients admitted to a geriatric acute care unit. Three hundred and six older inpatients (mean age 84.6 +/- 6.4 years, 61.8 % women) were consecutively included in this longitudinal prospective cohort study. Patients were separated into two groups according to LOS tertiles: highest tertile (≥ 14 days; $n = 120$) versus the other two tertiles combined (<14 days; $n = 186$). Serum 25OHD deficiency (58.3 vs. 38.7 %, $P = 0.001$) and the prevalence of male gender (58.3 vs. 28.5 %, $P < 0.001$) were higher among inpatients with the highest LOS compared with those with lower LOS. Serum 25OHD deficiency [odds ratio (OR) = 2.22, $P = 0.001$ for unadjusted model; OR = 1.87, $P = 0.012$ for fully adjusted model] and male gender (OR = 2.87, $P < 0.001$ for unadjusted model; OR = 2.64, $P = 0.001$ for full model) were associated with a high LOS. Vitamin D deficiency and male gender were risk factors for a long LOS in this pilot study. Using these risk factors to identify inpatients at risk of long LOS may be helpful in adapting early care plans, and thus improving inpatients' health and shortening LOS.</p>
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DOI	10.1007/s40520-013-0010-4 [14]
Titre abrégé	Aging Clin Exp Res

Liens

- [1] <http://okina.univ-angers.fr/o.beauchet/publications>
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=14871](http://okina.univ-angers.fr/publications?f[author]=14871)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=14873](http://okina.univ-angers.fr/publications?f[author]=14873)
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- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=15562](http://okina.univ-angers.fr/publications?f[keyword]=15562)
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