



## Bone tissue and hyperhomocysteinemia.

Submitted by Guillaume Mabillean on Wed, 06/10/2015 - 13:56

Titre	Bone tissue and hyperhomocysteinemia.
Type de publication	Article de revue
Auteur	Levasseur, Régis [1]
Pays	France
Editeur	Elsevier
Ville	Paris
Type	Article scientifique dans une revue à comité de lecture
Année	2009
Langue	Anglais
Date	Mai 2009
Numéro	3
Pagination	234-240
Volume	76
Titre de la revue	Joint Bone Spine
ISSN	1778-7254
Mots-clés	Animals [2], Bone and Bones [3], Bone Density [4], Bone Remodeling [5], Disease Models, Animal [6], Homocysteine [7], Humans [8], Hyperhomocysteinemia [9], Mice [10], osteoporosis [11]
Résumé en anglais	<p>Bone tissue quality is determined not only by multiple architectural variables, but also by the mechanical properties of collagen type 1. Homocysteinuria is a genetic disease whose manifestations include severe hyperhomocysteinemia and decreased bone strength. The effects of smaller homocysteine elevations on bone tissue are difficult to demonstrate in clinical studies. Studies in animals and in humans suggest that homocysteine may weaken collagen crosslinks and, if present in large amounts, interfere with bone remodeling. Whether routine homocysteine assays should be performed to detect bone frailty remains unclear. In clinical practice, the focus should be on identifying patients with potential causes of homocysteine elevation (e.g., medications), who should then be given vitamin D and folic acid supplementation if needed. This approach may improve not only bone health, but also vascular and general health.</p>
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua12440">http://okina.univ-angers.fr/publications/ua12440</a> [12]
DOI	10.1016/j.jbspin.2008.11.002 [13]
Identifiant (ID) PubMed	19217816 [14]

---

### Liens

[1] [http://okina.univ-angers.fr/publications?f\[author\]=18449](http://okina.univ-angers.fr/publications?f[author]=18449)

[2] [http://okina.univ-angers.fr/publications?f\[keyword\]=964](http://okina.univ-angers.fr/publications?f[keyword]=964)

- [3] [http://okina.univ-angers.fr/publications?f\[keyword\]=16275](http://okina.univ-angers.fr/publications?f[keyword]=16275)
- [4] [http://okina.univ-angers.fr/publications?f\[keyword\]=16209](http://okina.univ-angers.fr/publications?f[keyword]=16209)
- [5] [http://okina.univ-angers.fr/publications?f\[keyword\]=7446](http://okina.univ-angers.fr/publications?f[keyword]=7446)
- [6] [http://okina.univ-angers.fr/publications?f\[keyword\]=1100](http://okina.univ-angers.fr/publications?f[keyword]=1100)
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=18453](http://okina.univ-angers.fr/publications?f[keyword]=18453)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=991](http://okina.univ-angers.fr/publications?f[keyword]=991)
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=18454](http://okina.univ-angers.fr/publications?f[keyword]=18454)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=1102](http://okina.univ-angers.fr/publications?f[keyword]=1102)
- [11] [http://okina.univ-angers.fr/publications?f\[keyword\]=7135](http://okina.univ-angers.fr/publications?f[keyword]=7135)
- [12] <http://okina.univ-angers.fr/publications/ua12440>
- [13] <http://dx.doi.org/10.1016/j.jbspin.2008.11.002>
- [14] <http://www.ncbi.nlm.nih.gov/pubmed/19217816?dopt=Abstract>

Publié sur *Okina* (<http://okina.univ-angers.fr>)