



Thyroxine Therapy in Euthyroid Patients Does Not Affect Body Composition or Muscular Function

Submitted by Emmanuel Lemoine on Wed, 12/11/2013 - 17:07

Titre	Thyroxine Therapy in Euthyroid Patients Does Not Affect Body Composition or Muscular Function
Type de publication	Article de revue
Auteur	Dubois, Séverine [1], Abraham, Pierre [2], Rohmer, Vincent [3], Rodien, Patrice [4], Audran, Maurice [5], Dumas, Jean-François [6], Ritz, Patrick [7]
Editeur	Mary Ann Liebert
Type	Article scientifique dans une revue à comité de lecture
Année	2008
Date	2008/01
Numéro	1
Pagination	13 - 19
Volume	18
Titre de la revue	Thyroid
ISSN	1050-7256, 1557-9077
Résumé en anglais	<p>OBJECTIVE:The main objective of the study was to evaluate the effects of small increments in thyroxine (T4) levels following levothyroxine (L-T4) administration on the body composition of women patients. The secondary objective was to assess the effect of the therapy on energy expenditure and muscular function. METHODS: The prospective, randomized study consisted of a 12-month follow-up of 37 women with thyroid nodules. The patients were divided into two groups for comparison, one treated with L-T4 (20 women) and the other untreated (17 women). L-T4 dose was individually adjusted to obtain a serum thyroid-stimulating hormone in the lower portion of the normal range. Multiple tests, including bioelectrical impedance analysis, dual-energy X-ray absorptiometry, air displacement plethysmography, measurement of waist circumference, and skinfold anthropometry, were used to investigate the muscular, fat, and water compartments; energy expenditure and muscular function were assessed by cycle ergometry. RESULTS: There were no significant differences in body composition, heart rate, energy metabolism, or muscular function between the group of women treated with L-T4 and the untreated group. CONCLUSION: The controlled increase of circulating T4 does not appear to modify the body composition or muscular function in women patients.</p>
URL de la notice	http://okina.univ-angers.fr/publications/ua258 [8]
DOI	10.1089/thy.2007.0037 [9]
Lien vers le document	http://dx.doi.org/10.1089/thy.2007.0037 [9]

Liens

[1] [http://okina.univ-angers.fr/publications?f\[author\]=711](http://okina.univ-angers.fr/publications?f[author]=711)

- [2] <http://okina.univ-angers.fr/pierre.abraham/publications>
- [3] <http://okina.univ-angers.fr/vi.rohmer/publications>
- [4] <http://okina.univ-angers.fr/p.rod/publications>
- [5] <http://okina.univ-angers.fr/ma.audran/publications>
- [6] [http://okina.univ-angers.fr/publications?f\[author\]=715](http://okina.univ-angers.fr/publications?f[author]=715)
- [7] [http://okina.univ-angers.fr/publications?f\[author\]=706](http://okina.univ-angers.fr/publications?f[author]=706)
- [8] <http://okina.univ-angers.fr/publications/ua258>
- [9] <http://dx.doi.org/10.1089/thy.2007.0037>

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