



# Effect of mandibular advancement therapy on inflammatory and metabolic biomarkers in patients with severe obstructive sleep apnoea: a randomised controlled trial

## Trial registration number

Submitted by Beatrice Guillaumat on Fri, 11/16/2018 - 10:12

Titre	Effect of mandibular advancement therapy on inflammatory and metabolic biomarkers in patients with severe obstructive sleep apnoea: a randomised controlled trial registration number
Type de publication	Article de revue
Auteur	Recoquillon, Sylvain [1], Pépin, Jean-Louis [2], Vielle, Bruno [3], Andriantsitohaina, Ramaroson [4], Bironneau, Vanessa [5], Chouet-Girard, Frédérique [6], Fleury, Bernard [7], Goupil, François [8], Launois, Sandrine [9], Martinez, Maria Carmen [10], Meslier, Nicole [11], Nguyen, Xuan-Lan [12], Paris, Audrey [13], Priou, Pascaline [14], Tamisier, Renaud [15], Trzepizur, Wojciech [16], Gagnadoux, Frédéric [17]
Editeur	BMJ Publishing Group
Type	Article scientifique dans une revue à comité de lecture
Année	2018
Langue	Anglais
Date	2018
Titre de la revue	Thorax
ISSN	0040-6376
Résumé en anglais	Systemic inflammation and metabolic disorders are among the mechanisms linking obstructive sleep apnoea (OSA) and cardiovascular disease (CVD). In 109 patients with severe OSA and no overt CVD, biomarkers of inflammation (C reactive protein, interleukin-6, tumour necrosis factor- $\alpha$ and its receptors, adiponectin, leptin and P-selectin), glucose and lipid metabolism, and N-terminal pro-brain natriuretic peptide, were measured before and after 2 months of treatment with a mandibular advancement device (MAD) (n=55) or a sham device (n=54). MAD reduced the Apnoea-Hypopnoea Index (p<0.001) but had no effect on circulating biomarkers compared with the sham device, despite high treatment adherence (6.6 hour/night).
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua18020">http://okina.univ-angers.fr/publications/ua18020</a> [18]
DOI	<a href="https://doi.org/10.1136/thoraxjnl-2018-212609">10.1136/thoraxjnl-2018-212609</a> [19]
Lien vers le document	<a href="https://thorax.bmj.com/content/early/2018/10/26/thoraxjnl-2018-212609">https://thorax.bmj.com/content/early/2018/10/26/thoraxjnl-2018-212609</a> [20]

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- [20] <https://thorax.bmj.com/content/early/2018/10/26/thoraxjnl-2018-212609>

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