

Amsterdam University of Applied Sciences

Does successful TMD-treatment improve concurrent headache complaints in TMD patients?

van der Meer, H.A.; Calixtre, L.B.; Engelbert, R.H.H.; Nijhuis-van der Sanden, M.W.G.; Speksnijder, C.M.; Visscher, C.M

Publication date

2018

Document Version

Final published version

[Link to publication](#)

Citation for published version (APA):

van der Meer, H. A., Calixtre, L. B., Engelbert, R. H. H., Nijhuis-van der Sanden, M. W. G., Speksnijder, C. M., & Visscher, C. M. (2018). *Does successful TMD-treatment improve concurrent headache complaints in TMD patients?*. Poster session presented at Scientific Meeting for the American Academy for Orofacial Pain, .

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please contact the library:

<https://www.amsterdamuas.com/library/contact/questions>, or send a letter to: University Library (Library of the University of Amsterdam and Amsterdam University of Applied Sciences), Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

Does successful TMD-treatment improve concurrent headache complaints in TMD patients? *Preliminary results of a prospective cohort study.*

H.A. van der Meer¹⁻⁵, L.B Calixtre⁶, R.H.H. Engelbert^{2,3}, M.W.G. Nijhuis- van der Sanden¹, C.M. Speksnijder⁵, C.M. Visscher⁴

¹Radboud University Medical Center, Research Institute for Health Sciences, Nijmegen, the Netherlands; ²Amsterdam University of Applied Sciences, Faculty of Health, the Netherlands; ³Academic Medical Center, Department of Rehabilitation, Amsterdam, the Netherlands; ⁴Academic Center for Dentistry Amsterdam, Department of Oral Health Sciences, the Netherlands; ⁵University Medical Center Utrecht, Department of Oral-Maxillofacial Surgery, the Netherlands; Physiotherapy Department, Federal University of São Carlos, São Carlos, Brazil

Introduction



Temporomandibular disorders (TMD) and headache are co-morbid disorders.

It is unknown if a successful TMD-treatment will lead to an improvement of the headache.

The **aim** of this study is to establish the association between change in orofacial pain (OFP) and change in headache in patients with TMD-pain after TMD-treatment.

Results

50 participants included: 40 women and 10 men. The mean age was 40.5 (SD 14.4). Myalgia was present in 28 people, arthralgia in 19.

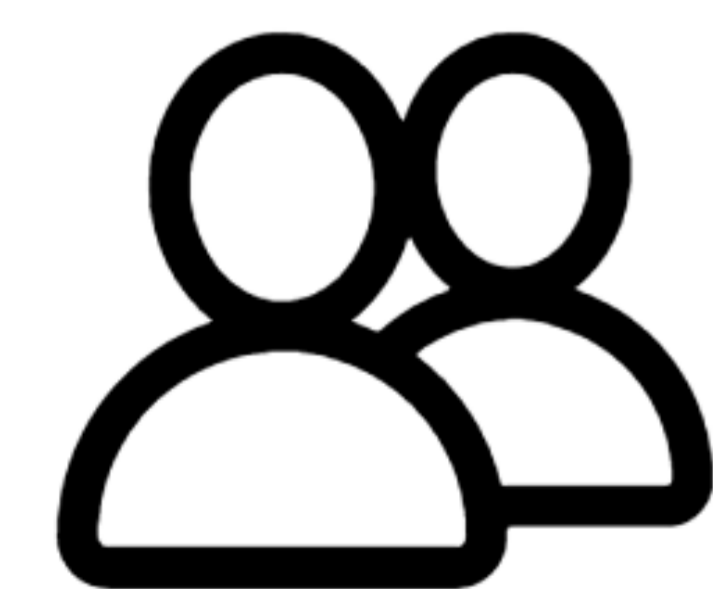
	CPI	Disability
Self-reported headache (n=50)	0.585***	0.588***
Migraine (n=17)	0.661**	0.758***
Tension-Type headache (n=15)	0.398	0.326
Secondary headache attributed to TMD (n=14)	0.636*	0.569*

Table 1 – correlation coefficients of the association between the change in OFP scores and change in headache scores.

*p<0.05; **p<0.01; ***p<0.001.

Methods

Inclusion:
Patients with TMD-pain and headache



Outcomes (collected by email)
Graded Chronic Pain Scale(GCPS)
• Chronic Pain Intensity (CPI)
• Disability Score

Statistics

- Change scores between baseline and 12 weeks
- Spearman's rho correlation

TAKE HOME MESSAGE

- Successful TMD-treatment reduces concurrent headache complaints in patients with TMD-pain.
- Strongest association between changes found for patients with migraine.
- Patients with secondary headache attributed to TMD as well as patients with migraine benefit from a multidisciplinary TMD-treatment.