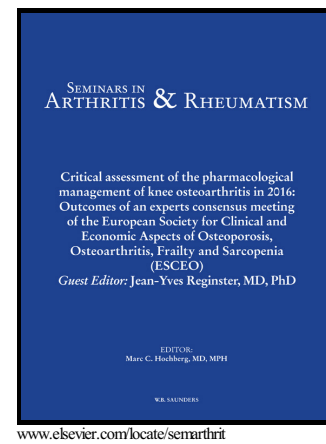


Radiographic damage and progression of the cervical spine in ankylosing spondylitis patients treated with TNF- α inhibitors: Facet joints versus vertebral bodies
Damage of cervical facet joints versus vertebral bodies in AS

Fiona Maas, Anneke Spoorenberg, Elisabeth Brouwer, Eveline van der Veer, Hendrika Bootsma, R. Bos, Freke Wink, Suzanne Arends



PII: S0049-0172(16)30421-8
DOI: <http://dx.doi.org/10.1016/j.semarthrit.2016.11.003>
Reference: YSARH51129

To appear in: *Seminars in Arthritis and Rheumatism*

Cite this article as: Fiona Maas, Anneke Spoorenberg, Elisabeth Brouwer, Eveline van der Veer, Hendrika Bootsma, R. Bos, Freke Wink and Suzanne Arends, Radiographic damage and progression of the cervical spine in ankylosing spondylitis patients treated with TNF- α inhibitors: Facet joints versus vertebral bodies
Damage of cervical facet joints versus vertebral bodies in AS, *Seminars in Arthritis and Rheumatism*, <http://dx.doi.org/10.1016/j.semarthrit.2016.11.003>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Radiographic damage and progression of the cervical spine in ankylosing spondylitis patients treated with TNF- α inhibitors: facet joints versus vertebral bodies

Fiona Maas¹, Anneke Spoorenberg^{1,2}, Elisabeth Brouwer¹, Eveline van der Veer³, Hendrika Bootsma¹, R. Bos², Freke Wink², Suzanne Arends^{1,2}

¹Rheumatology and Clinical Immunology, University Medical Center Groningen, University of Groningen; ²Rheumatology, Medical Center Leeuwarden; ³Laboratory Medicine, University Medical Center Groningen, University of Groningen, The Netherlands

Corresponding author: Fiona Maas, Rheumatology and Clinical Immunology, University Medical Center Groningen, P.O. Box 30.001, 9700 RB Groningen, The Netherlands.
Phone: +31 50 3613432; Fax: +31 50 3619308; Email: f.maas@umcg.nl

Reprint request: Fiona Maas, Rheumatology and Clinical Immunology, University Medical Center Groningen, P.O. Box 30.001, 9700 RB Groningen, The Netherlands; Email: f.maas@umcg.nl

Running head: Damage of cervical facet joints versus vertebral bodies in AS

Download English Version:

<https://daneshyari.com/en/article/5583980>

Download Persian Version:

<https://daneshyari.com/article/5583980>

[Daneshyari.com](https://daneshyari.com)