

VU Research Portal

Mechanical behaviour of the intervertebral disc under sustained compressive loading

van der Veen, A.J.

2009

document version

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

citation for published version (APA)

van der Veen, A. J. (2009). *Mechanical behaviour of the intervertebral disc under sustained compressive loading*. [PhD-Thesis - Research and graduation internal, Vrije Universiteit Amsterdam].

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

E-mail address:

vuresearchportal.ub@vu.nl

The aim of spinal research at the VU University Medical Center is to improve treatment strategies for low back pain. This requires a thorough insight in the mechanics of the intervertebral disc as an important structure in the healthy spine and in low back pain.

Mechanical loading plays a role in the life cycle of the intervertebral disc. In literature, mechanical behaviour of the intervertebral disc is often described from short-term experiments, usually with the unloaded situation as a starting point. The effect of loading history on disc mechanics is, in general, disregarded. The gap in knowledge on disc behaviour under sustained loading is the starting point of the research in this thesis.

The in vitro results of the mechanical behaviour of the intervertebral disc, presented in this thesis, have implications for testing of spinal motion sections, but can also be translated to the in vivo behaviour of the disc.

Mechanical behaviour of the intervertebral disc under sustained compressive loading

A.J. van der Veen

Mechanical behaviour of the intervertebral disc under sustained compressive loading

A.J. van der Veen

INVITATION

to attend the public thesis defence of

Albert van der Veen

Friday
October 16th 2009
at 13.45

in the Aula of
Vrije Universiteit
Amsterdam

De Boelelaan 1105

Mechanical behaviour of the intervertebral discs under sustained compressive loading

After the ceremony everybody is invited for the reception

Paranymphs
Ger Vink
ger@upc.vu.nl
Micha Paalman
mi.paalman@vumc.nl