



There are only minor changes in quality of life in patients with Scheuermann's disease

Frank Damborg¹, Vilhelm Engell², Mikkel Ø. Andersen³, Kirsten O. Kyvik⁴ & Karsten Thomsen⁵

INTRODUCTION

The impact of Scheuermann's disease (SD) on health-related quality of life (HRQoL) is unclear. Our aim was to study HRQoL based on The Medical Outcome Study Short Form-12 (SF-12) in adult life in a group of SD patients.

MATERIAL AND METHODS

75.3% of 46,418 twins answered a questionnaire which included questions from the SF-12. We compared SF-12 values in SD patients and control patients, identified 259 "non-concordant" twin pairs, and compared SF-12 values from the SD twin and the healthy twin.

RESULTS

SD was identified in 943 persons, leaving 33,064 persons in the control group. SF-12 Physical Component Summary (PCS) (mean (stand. dev.)) was 50.50 (9.89) in SD and 53.21 (8.00) in controls ($p < 0.001$), and SF-12 Mental Component Summary (MCS) was 51.52 (8.49) in SD and 51.81 (8.45) in controls ($p = 0.71$). In the non-concordant twin pairs SF-12 PCS was 50.74 (9.87) in SD and 52.74 (8.84) in controls ($p < 0.001$), and SF-12 MCS was 53.91 (8.19) in SD and 53.72 (8.70) in controls ($p = 0.64$).

CONCLUSION

SF-12 PCS is moderately, though highly statistically significantly worse in SD patients than in controls. We found no statistical difference in SF-12 MCS. SD patients evaluate their physical health worse and their mental health like controls.

FUNDING: this study was funded by The Sahva Foundation.

TRIAL REGISTRATION: approved by the Scientific-ethical Committee in Denmark (no. 20010202).

CORRESPONDENCE: Frank Damborg. E-mail: frankdamborg@stofanet.dk

CONFLICTS OF INTEREST: Disclosure forms provided by the authors are available with the full text of this article at www.danmedj.dk

REFERENCE: Dan Med J 2014;61(3):A4790

FROM: 1) Department of Orthopaedic Surgery, Lillebaelt Hospital, Kolding 2) Section of Children's Orthopaedics, Department of Orthopaedic Surgery, Odense University Hospital 3) Spine Section, Department of Orthopaedic Surgery, Lillebaelt Hospital, Middelfart 4) Odense Patient Data Explorative Network (OPEN), Odense University Hospital, and Institute of Regional Health Services Research, University of Southern Denmark 5) Spine Section, Hamlet Hospital



Det nye nummer af Danish Medical Journal er nu tilgængeligt på nettet: www.danmedj.dk

Tilmeld dig E-mail Alerts fra Danish Medical Journal og få en mail, når der udkommer et nyt nummer.

Original articles

1. There are only minor changes in quality of life in patients with Scheuermann's disease. *Frank Damborg, Vilhelm Engell, Mikkel Ø. Andersen et al*
2. Daily number of fractures is associated with road temperature in an urban area. *Christopher Jantzen, Henrik L. Jørgensen, Morten T. Thomsen et al*
3. Dedicated emergency departments delay surgical treatment of acute appendicitis. *Shiraz Ajmal Qadar, Yasuko Maeda, Javed Akram et al*
4. In Denmark kidney transplantation is more cost-effective than dialysis. *Cathrine Elgaard Jensen, Preben Sørensen & Karin Dam Petersen*
5. Non-invasive ventilation is less efficient in pneumonia than in chronic obstructive pulmonary disease exacerbation. *Mads Belger Risom, Bjarne Nordstrøm Kjær, Ellen Risom et al*
6. First Danish experience with ex vivo lung perfusion of donor lungs before transplantation. *Ian Sune Iversen Henriksen, Hasse Møller-Sørensen, Christian Holdflod Møller et al*
7. Admissions to emergency department may be classified into specific complaint categories. *Rasmus Carter-Storch, Ulrik Frydkjær Olsen & Christian Backer Mogensen*
8. Management of pneumothorax differs across Denmark. *Ulrik Winning Iepsen & Thomas Ringbæk*

Systematic review

1. Tibial eminencia avulsion fracture in children – a systematic review of the current literature. *Veronica Leeberg, Jesper Lekdorf, Christian Wong et al*

Clinical guideline

1. Stress ulcer prophylaxis in the intensive care unit: a guideline from the Danish Society of Intensive Care Medicine and the Danish Society of Anesthesiology and Intensive Care Medicine. *Kristian Rørbæk Madsen, Kristian Lorentzen, Niels Clausen et al*

PhD theses

1. Experimental evaluation of clinical colon anastomotic leakage. *Hans-Christian Pommergaard*
2. The role of CDX2 in inflammatory bowel disease. *Mehmet Coskun*