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Identifying Patients at Risk of Chronic Postoperative Pain Using Cuff Algometry

A. V. Danielsen^{1, 2}, J. J. Andreasen^{1, 2}, B. Dinesen³, J. Hansen⁴, K. K. Petersen⁵, C. Simonsen¹, D. Nøhr¹, L. Arendt-Nielsen⁵

¹Aalborg University Hospital, Department of Cardiothoracic Surgery, Aalborg, Denmark, ²Aalborg University, Department of Clinical Medicine, Aalborg, Denmark, ³Aalborg University, Department of Health Science and Technology, Faculty of Medicine, Laboratory of Welfare Technologies - Telehealth & Tele-rehabilitation, Aalborg, Denmark, ⁴Aalborg University, Department of Health Science and Technology, Faculty of Medicine, CardioTech Research Group, Aalborg, Denmark, ⁵Aalborg University, Department of Health Science and Technology, School of Medicine, Center for Sensory-Motor Interaction, CNAP, Aalborg, Denmark

Abstract

Objective

Quantitative sensory testing (QST) aims to assess facilitation of spinal pain mechanisms by Temporal Summation of Pain (TSP) and balance in pain inhibition and facilitation by Conditioned pain modulation (CPM).

The aim was to investigate associations between preoperative TSP and CPM response and risk of chronic pain.

Materials and Methods

Preoperative CPM and TSP was obtained by cuff algometry.

Clinical information was recorded at baseline and after six months.

Results

Patients with chronic pain demonstrated impaired CPM response: -10.49 95%CI (6.61; 14.39) kPa, p=0.010.

No difference was reported in TSP: 0.50 95%CI (-0.19; 1.19), p=0.153.

CPM response was associated with reduced risk of chronic pain: RR 0.98 95%CI(0.97; 0.99) / kPa, p=0.002 (adjusted for preoperative pain, tumor histology, age and sex).

Conclusions

This study suggests that impaired preoperative CPM response is an independent risk factor of chronic postoperative pain.

Authors

First author: Allan Vestergaard Danielsen

Presented by:
Submitted by:

Allan Vestergaard Danielsen
Allan Vestergaard Danielsen