Complementary and Alternative Therapies in Surgical Care

Akademisk avhandling

för avläggande av medicine doktorsexamen vid Sahlgrenska akademin, Göteborgs Universitet

Avhandlingen kommer att offentligen försvaras i hörsal 1737 Ivan Östhoml, Medicinaregatan 13C, Göteborg
Fredagen den 7 december 2012 kl.13:00

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Avhandlingen baseras på följande delarbeten:


ABSTRACT

International and national use of complementary and alternative medicine (CAM) is high in the general population and among patients. Health care professions level of knowledge about CAM is low, but an interest in receiving education about this field has been observed. Concerning surgical care, previous studies indicate a wide range of CAM use among patients, but the level of knowledge among health care professions is poorly investigated, both internationally and in Sweden. Concerning CAM therapies in sign and symptom management in the surgical care, transcutaneous electric nerve stimulation (TENS) have been used with diverse effectiveness and osteopathic medicine poorly investigated in this context.

The overall objective of this thesis was to investigate CAM in the surgical context with focus on health care professions perceptions and understanding, and therapy usability in symptom management in clinical settings. Both inductive (paper I; semi structured interviews, n=16) and deductive (paper II; questionnaire, n=737) methods were used to investigate perceptions and understanding of CAM among Swedish health care professions in surgical care. TENS as a pain relieving complement during transition from epidural analgesia (EDA) to general analgesia after major abdominal surgery was investigate with a randomized controlled trial design (paper III; n=20). Osteopathic intervention in management of chronic signs and symptoms after thoracotomy was investigated with single subject research design (paper IV; n=8).

The results reveal that surgical health care professions understand and perceived CAM as a wide range of therapies, remedies and system. Their self valued level of knowledge was low, both concerning CAM and CAM research, but a desire to gain knowledge about CAM was stated. A majority of the participant would consider learning a CAM therapy. Dialog about and referral to CAM happened, but in limited extent. Concerning therapy usability, TENS was not found to significantly relieve pain, promote recovery or reduce analgesia consumption. In addition, comments from nurses and patients indicated that TENS treatment obstructed the postoperative care. Significant improvement was observed with osteopathic intervention towards stiffness and benefits towards pain, but not in breathing.

The comprehensive conclusion of the thesis is that Swedish health care professions recognized the concept CAM and some of its therapies, but their knowledge was in general low. Concerning therapy usability and effectiveness of CAM in surgical care, the context is essential; TENS after major abdominal surgery in EDA elimination is questionable concerning pain and clinical application, osteopathy may be beneficial in management of chronic signs and symptoms after thoracotomy.

**Keywords**: Complementary Medicine, Alternative Medicine, Integrative Care, CAM, Surgery, Surgical Care, Transcutaneous Electric Nerve Stimulation, Osteopathic Medicine, Perceptions, Knowledge, Epidural Analgesia, Post-thoracic symptoms.

**ISBN**: 978-91-628-8551-9
http://hdl.handle.net/2077/29720

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