

“The present study investigated the effectiveness of two pain pump systems and compared the running costs in treatment.” Bräscher et al (2014)

Reference:

Bräscher, A.K., Blunk, J., Söhle, S., Feldmann, R.E. Jr., Bauer, M. and Benrath, J. (2014) Cost minimization analysis in postoperative pain management : Economic efficiency and effectiveness of two infusion pump systems. Der Anaesthetist. September 6th. . .

Economic efficiency and effectiveness of two infusion pump systems [#ivteam](http://ctt.ec/QtcbN+@ivteam)

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Abstract:

BACKGROUND: Besides reliable efficacy and patient satisfaction, economic efficiency is becoming increasingly more important in postoperative pain management.

AIM: The present study investigated the effectiveness of two pain pump systems and compared the running costs in treatment.

MATERIAL AND METHODS: In this study 40 patients received an interscalene catheter prior to shoulder surgery. Postoperative pain management was provided via an electronic pump with patient-controlled analgesia (PCA) or a mechanical pump without PCA. Patients kept a pain log. After treatment they were interviewed about their satisfaction with the pump. In addition drug consumption, nursing material, staff time for handling and maintenance of the pumps and preparation of medications pro re nata were assessed.

RESULTS: Postoperative pain levels and patient satisfaction were comparable in both groups. Economically, the electronic pump was more cost-effective than the electronic model for a duration of treatment of 1 and 2 days. With treatment duration of 3 days the costs of both pumps were equivalent; however, the PCA feature of the electronic pump allowed a reduced intake of systemic analgesics on demand.

CONCLUSION: Both pain pump systems provide equally effective pain management, while the

electronic model caused less costs. Both pumps offer advantages and disadvantages that should be considered based on local circumstantial demands.

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