Appendix 1

MEDLINE was searched during the week of November 11th, 2010 using the PubMed interface

(back pain nurses patient handling and level)

9 results


(back injury nurse patient handling threshold)
0 results

(back injury nurse patient handling intensity)
1 result
JAPANESE so not able to be included


(back injury nurse patient handling duration)
2 results


(back injury nurses patient transfer)

19 results


(back pain nurses patient transfer)

20 results


(back pain nurses biomechanics patient)

18 results


(back pain nurses biomechanics client)

10 results


Cochrane Library search (12/12/10)

"nurse back injury patient handling” in Title, Abstract or Keywords

6 articles of relevance

Owen BD, Keene K, Olson S. An ergonomic approach to reducing back/shoulder stress in hospital nursing personnel: a five year follow up. 2002

Yassi A, Cooper JE, Tate RB, Gerlach S, Muir M, Trottier J, Massey K. A randomized controlled trial to prevent patient lift and transfer injuries of health care workers. 2001

Daynard D, Yassi A, Cooper JE, Tate R, Norman R, Wells R. Biomechanical analysis of peak and cumulative spinal loads during simulated patient-handling activities: a substudy of a randomized controlled trial to prevent lift and transfer injury of health care workers. 2001


Lynch R M, Freund A. Short-term efficacy of back injury intervention project for patient care providers at one hospital. 2000

Marras WS, Davis KG, Kirking BC, Bertsche PK. A comprehensive analysis of low-back disorder risk and spinal loading during the transferring and repositioning of patients using different techniques. 1999

"patient handling and back pain” in Title, Abstract or Keywords

13 results
Svensson AL, Stroyer J, Ebbehoj NE, Schultz-Larsen K, Marott JL, Mortensen OS, Suadicani P.
Multidimensional intervention and sickness absence in assistant nursing students. 2009


Engst C, Chhokar R, Miller A, Tate R B, Yassi A. Effectiveness of overhead lifting devices in reducing the risk of injury to care staff in extended care facilities. 2005


Ferguson SA, Marras WS, Burr DL, Davis KG, Gupta P. Differences in motor recruitment and resulting kinematics between low back pain patients and asymptomatic participants during lifting exertions. 2004


Yassi A, Cooper JE, Tate RB, Gerlach S, Muir M, Trotter J, Massey K. A randomized controlled trial to prevent patient lift and transfer injuries of health care workers. 2001

Lynch R M, Freund A. Short-term efficacy of back injury intervention project for patient care providers at one hospital. 2000
Pain H, Jackson S, McLellan DL, Gore S. User evaluation of handling equipment for moving dependent people in bed. 1999

Sakuramoto C [Insertion characteristics and complications of a new spinal needle 26-gauge Atraucan] 1997

Triano J, Schultz AB. Loads transmitted during lumbosacral spinal manipulative therapy. 1997

Goldner JL, Nashold BSJr, Hendrix PC. Peripheral nerve electrical stimulation. 1982

CINAHL database was searched through EBSCOhost (12/12/10)

Boolean search – patient handling AND back injury

51 results

Boolean search – patient handling AND back injury AND nurse

8 results


2. Barnes AF; Moving and handling. Erasing the word 'lift' from nurses' vocabulary when handling patients. British Journal of Nursing (BJN), 2007 Oct 11-24; 16 (18): 1144-7


8. Tabone S; Safe patient handling. Texas Nursing, 2005 Mar; 79 (3): 10-1

Boolean search – patient handling AND back injury AND biomechanics

4 results


Boolean search – patient handling AND back injury AND threshold

0 results
Boolean search – patient handling AND back injury AND level

5 results

1. Skotte J; Fallentin N; Low back injury risk during repositioning of patients in bed: the influence of handling technique, patient weight and disability. Ergonomics, 2008 Jul; 51 (7): 1042-52


Boolean search – patient handling AND back injury AND duration

1 result

1. Smith DR; Guo YL; Lee Y; Chang S; Ergonomic and demographic issues reported by palliative care workers in southern Taiwan. American Journal of Hospice & Palliative Care, 2002 Mar-Apr; 19 (2): 96-102, 144, 1.

Boolean search – patient handling AND back injury AND intensity

1 result
1. Yassi A; Cooper JE; Tate RB; Gerlach S; Muir M; Trottier J; Massey K; A randomized controlled trial to prevent patient lift and transfer injuries of health care workers. Spine, 2001 Aug 15; 26 (16): 1739-46

Google Scholar search (November – December 2010)

threshold, back injury and nurses
duration, back injury and nurses
cumulative load, back injury and nurses
biomechanics, back injury and nurses
level patient handling nurses back pain/injury


Snook SH, Ciriello VM. The design of manual handling tasks: revised tables of maximum acceptable weights and forces. Ergonomics 1991;34(9):1197–213


Vieira, E. R., 2007. Why do nurses have a high incidence of low back disorders, and what can be done to reduce their risk? Bariatric Nursing and Surgical Patient Care, 2(2), 141-147.


EMBASE

Injury/ nurse/back ache

21 results