The effect of foot reflexology on pain and physiological parameters after cesarean section in patients referring to Alzahra educational center in Rasht

Protocol summary

Summary
Introduction: Pain is a common phenomenon after all surgical operation. Acute and unrelieved pain can cause physical and mental complications, delayed recovery and prolonged hospitalization. Although using analgesia is usual to relieve pain, its complication, unavailability, necessity of taking low drug, especially analgesia, and also ineffectiveness of using analgesia alone, to relieve pain has focused today's nursing system on complementary treatments and Nonpharmacological Interventions. One of these methods is foot reflexology, so this study was to investigate the effect of foot reflexology on pain and physiological parameters after cesarean section in patients undergone cesarean section. Methods and materials: This clinical trial study was carried out on 62 women who referring to cesarean section in Alzahra Hospital (Rasht city) . They were randomly divided into two groups of case and control. The reflexology group received a 30-minute foot massage in two sessions, with 24-hours interval. Data gathering tool included a demographic form, step-visual analogue scale, pain score and physiological parameters form, and indicator and chronometer. Data were analyzed with descriptive and analytic statistic tests in 15th version of SPSS. Results: There was no demographical difference between two groups and they were matched completely. In case group, severity of pain after first stage of foot reflexology was lower than control group. The severity of pain after second stage was significantly reduced in case group in compare with control group. After first stage of foot reflexology in case group, systolic blood pressure decreased and after second stage if increased, but average of pain intensity showed no significant difference assumed with control group. The mean of pulse rate, after first and second stage, decreased significantly, but there was no significant difference between groups. Diastolic blood pressure and respiratory rate did not vary between case and control groups. Conclusion: Pain severity was lower in case group after both first and second stage. In case group, systolic blood pressure decreased after first stage and increased after second stage significantly. In general, foot reflexology appears to be a useful method for reducing pain in patients. So according to effectiveness of foot reflexology in pain reduction and some physiologic parameters and by considering its advantages, we can conclude that the results introduce a pain relief method for surgical nurses. Keywords: Cesarean section, Foot, Massage, Pain, postoperative, Palliative Care

General information

Acronym

IRCT registration information
IRCT registration number: IRCT138812021174N4
Registration date: 2011-04-10, 1390/01/21
Registration timing: retrospective

Last update:
Update count: 0
Registration date
2011-04-10, 1390/01/21

Registrant information

Name
Atefeh Ghanbari
Name of organization / entity
Guilan University of Medical Sciences
Country
Iran (Islamic Republic of)
Phone
+98 13780509
Email address
at_ghanbari@gums.ac.ir

Recruitment status
Recruitment complete
Funding source
vice chancellor for research, Guilan University of Medical Sciences

Expected recruitment start date
2010-09-02, 1389/06/11
Expected recruitment end date
2010-11-15, 1389/08/24
Actual recruitment start date
Scientific title
The effect of foot reflexology on pain and physiological parameters after cesarean section in patients referring to Alzahra educational center in Rasht

Public title
The effect of foot reflexology on pain and physiological parameters after cesarean section in patients referring to Alzahra educational center in Rasht

Purpose
Supportive

Inclusion/Exclusion criteria
inclusion criteria: 1- spinal anesthesia 2-not having hysterectomy and tubectomy 3-having fanshastanal surgery cutting 4- having healthy foot 5- not having reflexology history 6- not addict (sedative , alcohol and...) 7-not having problem in visual and verbal 8- orientation to time and place 9- not having chronic pain exclusion criteria : 1- severe complication such as: sever bleeding,edema,acute infection,not contraction after operative, not having bs 2- need to ICU AND CCU 3- not willing to participate in research

Age
From **20 years** old to **40 years** old

Gender
Female

Phase
N/A

Groups that have been masked
None

Sample size
Target sample size: **31**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Single

Other design features

Secondary Ids

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after 24 hours, again pain and physiological criteria (pre and posttest) measured in the control group, not having reflexology, and all parameters measured in same time such as case group.

**Category**
Prevention

**Recruitment centers**

1

**Recruitment center**
Name of recruitment center
Alzahra Hospital

**Full name of responsible person**
Atefeh Ghanbari

**Street address**
Rasht, Namjoo Street, Alzahra Hospital

**City**
Rasht

**Sponsors / Funding sources**

1

**Sponsor**
Name of organization / entity
Vice chancellor for research

**Full name of responsible person**
Atefeh Ghanbari

**Street address**
Rasht, Namjoo Street, Resarch Affairs

**City**
Rasht

**Grant name**

**Grant code / Reference number**

**Is the source of funding the same sponsor organization/entity?**
Yes

**Title of funding source**
Vice chancellor for research

**Proportion provided by this source**
100

**Public or private sector**
empty

**Domestic or foreign origin**
empty

**Category of foreign source of funding**
empty

**Country of origin**

**Type of organization providing the funding**
empty

**Person responsible for general inquiries**

**Contact**
Name of organization / entity
Gilan University of Medical Sciences

**Full name of responsible person**
Atefeh Ghanbari

**Position**
Phd

**Other areas of specialty/work**

**Street address**
Rasht, Gilan University of Medical Sciences

**City**
Rasht

**Postal code**
Iran

**Phone**
+98 13 1555 5056

**Fax**
+98 13 1555 0098

**Email**
at_ghanbari@gums.ac.ir

**Web page address**
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<td>Deidentified Individual Participant Data Set (IPD)</td>
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