

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

26 Jun 2026

### The effect of transcutaneous electrical nerve stimulation (TENS) on intensity of labor pain in active parturition phase in pregnant women that refer to Dezyani Hospital on 2010

#### Protocol summary

##### Summary

The aim of this study is evaluation the effect of transcutaneous electrical nerve stimulation for decrease of labor pain. This clinical trial was done on one hundred forty four (144) pregnant women in active phase of parturition that refer to Dezyani hospital that based on inclusion criteria: Primiparous, single term pregnancy, cephalic presentation, 3-5 cm dilatation, maternal age between 20-40 years and exclusion criteria: maternal cutaneous on the application site such as wound scar; pacemaker. The samples were collected after filling the questionnaire and recording the demographic at random. The severity of labor pain was evaluated with visual analogue scale (VAS) in the TENS, TENS placebo and control groups immediately after intervention, 30 minute after intervention and 60 minute after intervention. This examination was done in 5-6 cm and 8-9 cm dilatation and was analyzed statistically.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201205059642N1**  
Registration date: **2012-10-31, 1391/08/10**  
Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2012-10-31, 1391/08/10

##### Registrant information

##### Name

Elham Mobasheri

##### Name of organization / entity

Golestan University Of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 17 1222 5012

##### Email address

mobasheri@goums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Golestan University Of Medical Sciences

##### Expected recruitment start date

2010-09-23, 1389/07/01

##### Expected recruitment end date

2011-03-16, 1389/12/25

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The effect of transcutaneous electrical nerve stimulation (TENS) on intensity of labor pain in active parturition phase in pregnant women that refer to Dezyani Hospital on 2010

##### Public title

The effect of transcutaneous electrical nerve stimulation (TENS) on intensity of labor pain

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

inclusion criteria: primiparous; term pregnancy; cephalic presentation; at active phase of the first stage of labor with cervical dilatation 3-5 cm; age between 20-40 years- exclusion criteria: maternal cutaneous on the application site such as wound scar; pacemaker user

**Age**

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

**Gender**

Female

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **144**

**Randomization (investigator's opinion)**

Randomized

**Randomization description****Blinding (investigator's opinion)**

Not blinded

**Blinding description****Placebo**

Used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Golestan University Of Medical Sciences

**Street address**

Shast kolah Road, Golestan University Of Medical Sciences -Gorgan

**City**

Gorgan

**Postal code****Approval date**

2010-08-29, 1389/06/07

**Ethics committee reference number**

1465

**Health conditions studied****1****Description of health condition studied**

labor pain in active parturition phase

**ICD-10 code**

O80.9

**ICD-10 code description**

delivery(single)normal

**Primary outcomes****1****Description**

labor pain in active phase

**Timepoint**

Measurement of pain, right after intervention, 30 minutes, 60 minutes after intervention

**Method of measurement**

visual analogue scale

**Secondary outcomes**

empty

**Intervention groups****1****Description**

Trial group: used the Tens on back (L1-T10)

**Category**

Treatment - Other

**2****Description**

Tens placebo group: group received no electrical stimulation

**Category**

Placebo

**3****Description**

control group: no Intervention

**Category**

Other

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Dezyani Hospital

**Full name of responsible person**

Mersede kia

**Street address**

Beheshti Street, Dezyani Hospital, Gorgan

**City**

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**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Golestan University Of Medical Sciences

**Full name of responsible person**

Dr. Arabi

**Street address**

Beheshti Street, Dezyani Hospital, Gorgan

**City**

Gorgan

**Grant name**

**Grant code / Reference number**  
**Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**  
Golestan University Of Medical Sciences

**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**  
Golestan University Of Medical Sciences

**Full name of responsible person**  
Mersedeh Kia

**Position**  
Assistant Of Obsterics And Gynecology

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## Person responsible for scientific inquiries

### Contact

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Department of Obstetrics and Gynecology

**Full name of responsible person**  
Elham Mobasheri

**Position**  
Gynecologist

**Other areas of specialty/work**

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## Person responsible for updating data

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**Full name of responsible person**  
Mersede kia

**Position**  
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**Other areas of specialty/work**

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## Sharing plan

**Deidentified Individual Participant Data Set (IPD)**  
*empty*

**Study Protocol**  
*empty*

**Statistical Analysis Plan**  
*empty*

**Informed Consent Form**  
*empty*

**Clinical Study Report**  
*empty*

**Analytic Code**  
*empty*

**Data Dictionary**  
*empty*