Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Effect of honey on wound healing and scar of cesarean

Protocol summary

Summary

Delay or failure in wound healing and cesarean scar is the most common complications after caesarean section. In this study, we examined the effect of Honey on wound healing and prevention of cesarean scar in women referred to the Ayatollah Taleghani Center of Arak in 2008-2010. This research is a randomized double blind controlled trial. Sample size in each group is 40 cases. Mothers were randomly allocated into one of three groups (honey, placebo, or control group without any intervention). Medication was used twice a day for 16 consecutive days. The group without any intervention did not receive any topical medication. On 10th day after the caesarean section, place of sutures for wound healing was evaluated based on the criteria in the scale "reeda" and then stitches were removed. After 40 days, sutures were assessed regarding wound cesarean section scar based on "Vancouver Scale".

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138802051845N1**
Registration date: **2010-05-29, 1389/03/08**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2010-05-29, 1389/03/08

Registrant information

Name
Tooba Heidari
Name of organization / entity
Arak university of medical sciences
Country
Iran (Islamic Republic of)
Phone
+98 86141735039
Email address
t_heidari@arakmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for Research of Arak University of Medical Sciences, Barij essense Company

Expected recruitment start date

2008-12-21, 1387/10/01

Expected recruitment end date

2010-08-23, 1389/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of honey on wound healing and scar of cesarean

Public title

Honey and cesarean wound

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: age between 35-17, level of education the mother not less than five grade, gestational age between 37 to 42 weeks based on the first day since the last menstrual period (LMP) or ultrasound, cesarean delivery, uterine incision and lower transverse incision Faneshtyl skin, maximum two previous deliveries
Exclusion criteria: previous cesarean section, previous surgery in the lower abdominal area (site of cesarean section), smoking (cigarettes, hookah), known history of medical conditions known to have interaction to wound healing (Systemic or chronic diseases, heart, kidney, liver, respiratory, coagulation, connective tissue, skin, thyroid, diabetes, anemia, cancer, infectious diseases, or psychological), consumption of medications known to

have interaction to healing and scar formation (glucocorticoids, anticoagulations, immunosuppressives, broad spectrum antibiotics, antihistamins, calcium antagonists, chemotherapy and radiotherapy), obstetric problems (such as eclampsia, preeclampsia, placenta previa, placental abruptia, multiple gestation, chorioamniotitis, being impregnated with a liquid Meconium and poly Hydramnyvs), mental complications such as death of parents, spouse, child, separation from a spouse, serious differences with her husband, Major changes in life situation, severe financial problems during the past month

Age
From **17 years** old to **35 years** old

Gender
Female

Phase
1

Groups that have been masked
No information

Sample size
Target sample size: **120**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Arak University of Medical Sciences

Street address
Arak University of Medical Science, Sardasht, Arak

City
Arak

Postal code

Approval date
2008-11-05, 1387/08/15

Ethics committee reference number
87-43-4

Health conditions studied

1

Description of health condition studied
wound and cesarean scar

ICD-10 code
O85, O92

ICD-10 code description
Complications predominantly related to the puerperium

Primary outcomes

1

Description
healing of cesarean wound

Timepoint
10th days after cesaren operation

Method of measurement
reeda scale

Secondary outcomes

1

Description
cesarean scar

Timepoint
40th days after cesarean operation

Method of measurement
vancouver scale

Intervention groups

1

Description
honey, local use, twice a day for 16 consecutive days

Category
Treatment - Drugs

2

Description
Placebo, local use, twice a day for 16 consecutive days

Category
Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center
Ayatollah Taleghani Teaching Treatment Center

Full name of responsible person

Street address

City
Arak

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Arak University of Medical Science

Full name of responsible person

Vice-chancellor for Research, Arak University of Medical Sciences

Street address

Arak University of Medical Science , Sardasht, Arak

City

Arak

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Arak University of Medical Science

Proportion provided by this source

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

2

Sponsor

Name of organization / entity

Barij essence Company

Full name of responsible person

Dr. Reza Bekhradi

Street address

Kashan, Barij essence Compan

City

Kashan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Barij essence Company

Proportion provided by this source

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

Arak University of Medical Science

Full name of responsible person

Tooba Heidari

Position

Ms

Other areas of specialty/work

Street address

Arak University of Medical Science, Sardasht, Arak

City

Arak

Postal code

Phone

+98 86141735035

Fax

Email

t_heidari@arakmu.ac.ir , heidari.m.831@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Arak University of Medical Sciences

Full name of responsible person

Tooba Heidari

Position

Ms

Other areas of specialty/work

Street address

Arak University of Medical Sciences, Sardasht, Arak

City

Arak

Postal code

Phone

+98 86141735035

Fax

Email

t_heidari@arakmu.ac.ir , heidari.m.831@gmail.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Arak University of Medical Science

Full name of responsible person

Tooba Heidari

Position

Ms

Other areas of specialty/work

Street address

Arak University of Medical Science, Sardasht, Arak

City

Arak

Postal code

Phone

+98 86141735035

Fax

Email

t_heidari@arakmu.ac.ir , heidari.m.831@gmail.com

Web page address

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