

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jul 2026

### The clinical evaluation of Platelet-Rich Plasma effects on Free Gingival Graft's donor site wound healing

#### Protocol summary

##### Summary

The goal of this study is to evaluate the effect of Platelet Rich Plasma in wound healing of periodontological surgeries. A total 20 patients, aged 20-45 years old, who need bilateral F.G.G in Periodontics department of Babol Dental School. Each side of the mouth will be randomly assigned to be treated as routine free gingival grafting technique alone or receive additional PRP on and around the wound as well as routine technique. All the grafts will be harvested by mucotom (A. DOPPELER made in SWISS) to have the same size (thickness 1.5 mm, width 9 mm, length 15 mm). All patients use stent to eliminate local factors. Palatal anesthesia would be achieved by one dental carpool containing 2% Lidocaine and 1/100000 Epinephrine. Wound healing would be evaluated by 3 different investigators 2, 4, 7, and 14 days and 2 months after the surgery according to healing scales, pain intensity and tissue thickness.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT138812093451N1**

Registration date: **2011-01-02, 1389/10/12**

Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2011-01-02, 1389/10/12

##### Registrant information

###### Name

Mahmood Khosravi samani

###### Name of organization / entity

Babol University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 11 1229 1408

###### Email address

m.khosravi@mubabol.ac.ir

##### Recruitment status

###### Recruitment complete

##### Funding source

Dental Material Investigation Center, Babol University of Medical Sciences

##### Expected recruitment start date

2010-02-19, 1388/11/30

##### Expected recruitment end date

2011-03-21, 1390/01/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The clinical evaluation of Platelet-Rich Plasma effects on Free Gingival Graft's donor site wound healing

##### Public title

The clinical evaluation of Platelet-Rich Plasma effects on Free Gingival Graft's donor site wound healing

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: age 20 to 45 years old, need to bilateral (left and right) Free Gingival Graft for loss of attached gingiva or high frenum or shallow vestibular depth, Recipient site has to be about 2 cm Exclusion criteria: presence of Systemic diseases or life style elements that impact on healing process such as diabetes mellitus, Immune system diseases, history of alcohol use, healing disorders, addiction, smoking or no cooperation, abnormal CBC or bleeding time

**Age**

From **20 years** old to **45 years** old

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **20**

**Randomization (investigator's opinion)**

Randomized

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

Double blinded

**Blinding description****Placebo**

Not used

**Assignment**

Other

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

empty

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

Babol University Of Medical Scienses Ethics committee

**Street address**

Babol University Of Medical Scienses

**City**

Babol

**Postal code**

4713915697

**Approval date**

2010-04-20, 1389/01/31

**Ethics committee reference number**

30791/پ/ژ

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

wound healing

**ICD-10 code**

S00.5

**ICD-10 code description**

Superficial injury of lip and oral cavity

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

wound healing

**Timepoint**

2,4,7,14 days and second month after the surgery

**Method of measurement**

landry healing scale

**2****Description**

Pain

**Timepoint**

days 2, 4, 7, 14 after surgery

**Method of measurement**

Visual Analogue Scale

**Secondary outcomes****1****Description**

tissue thickness

**Timepoint**

before intervention and 2 months after surgery

**Method of measurement**

with periodontal probe and in millimeter

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

using growth factors (autogenous, 0.5 cc): injected around the wound by insulin syringe

**Category**

Treatment - Drugs

**2****Description**

control group normal healing process without growth factor application.

**Category**

N/A

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

Babol University Of Medical Scienses

**Full name of responsible person**

Bardia Vadiati

**Street address****City**

Babol

**Sponsors / Funding sources**

# 1

## Sponsor

**Name of organization / entity**

Babol University Of Medical Scienses, Dental Material Center

**Full name of responsible person**

Dr.Abasi

**Street address**

Babol University Of Medical Scienses, Ganjafrooz St.

**City**

Babol

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Babol University Of Medical Scienses, Dental Material Center

**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**

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**Full name of responsible person**

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**Position**

Post doctoral student of Periodontology

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## Person responsible for scientific

## inquiries

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## Person responsible for updating data

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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*