# Clinical Trial Protocol
# Iranian Registry of Clinical Trials

17 Sep 2026

## The comparison of effect of tight and accebtable glycemic control on the rate of Acute rejection in nondiabetic patient after renal transplant

## Protocol summary

**Summary**

This study is designed to determing the effect of tight blood sugar control in nondiabetic patient after kiney transplantation on graft function.This is a single blind study.Our study population will include patient with 18-70 years old.non diabetic,without prior transplantation that undergoing deceased donor renal transplantation or living donor transplantation . Patients,afer transplantation, were randomly allocated in two groups. In interventional group,Blood sugar(BS) is checked with glucometer after kidney transplantation in recovery room and every 2 hours.Infusion of regular insulin is started when BS is more than 140 mg,dl and continue for 48 hour..After 48 hours ,BS checks every 6 hours.If BS is more than 150 mg/dl subcutaneus insulin is given. In control group,,BS checks every 6 hours.If BS is more than 150 mg/dl subcutaneus insulin is given.Then the prevalence of kidney rejection,Infections(urinary tract ,pneumonia,site of surgery infection)and mortality is compared in two groups in one mounth after transplantation.

## General information

**Acronym**

**IRCT registration information**

IRCT registration number: **IRCT2012123011938N1**
Registration date: **2013-01-25, 1391/11/06**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

**Registration date**

2013-01-25, 1391/11/06

**Registrant information**

**Name**

Jila Rahmanian

**Name of organization / entity**

Ahvaz Joundi Shapoor University of Medical Science

**Country**

Iran (Islamic Republic of)

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+98 79 1333 0341

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**Recruitment status**

**Recruitment complete**

**Funding source**

Ahwaz Jondishapour University of Medical Science.

**Expected recruitment start date**

2012-03-19, 1390/12/29

**Expected recruitment end date**

2013-03-19, 1391/12/29

**Actual recruitment start date**

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

The comparison of effect of tight and accebtable glycemic control on the rate of Acute rejection in nondiabetic patient after renal transplant

**Public title**

The effect of insulin infusion for tight glucose control on acute kidney rejection.

**Purpose**

Treatment

**Inclusion/Exclusion criteria**

Inclusion criteria :The End stage renal disease patient exclusion criteria:Diabetic patient;Patients lesser than 18years of age;Patients more than 70 years of age

**Age**

From **18 years** old to **70 years** old

**Gender**

Both

**Phase**
N/A
**Groups that have been masked**
*No information*
**Sample size**
Target sample size: **60**
**Randomization (investigator's opinion)**
N/A
**Randomization description**
**Blinding (investigator's opinion)**
Single blinded
**Blinding description**
**Placebo**
Not used
**Assignment**
Parallel
**Other design features**

## Secondary Ids

empty

## Ethics committees

**1**

**Ethics committee**
**Name of ethics committee**
AhvazJoundi Shapoor University of Medical Science
**Street address**
AhvazJoundi Shapoor University of Medical Science,Golestan
**City**
Ahvaz
**Postal code**
**Approval date**
2010-09-23, 1389/07/01
**Ethics committee reference number**
eth650

## Health conditions studied

**1**

**Description of health condition studied**
kidney transplant rejection
**ICD-10 code**
T86.1
**ICD-10 code description**
Kidney transplant failure and rejection

## Primary outcomes

**1**

**Description**
Acute kidney rejection
**Timepoint**
First mounth after transplant
**Method of measurement**
Creatine measurment

## Secondary outcomes

**1**

**Description**
Dialysis
**Timepoint**
First week after transplantation
**Method of measurement**
Creatinin measurment

**2**

**Description**
Hypoglysemia
**Timepoint**
While insulin infusion
**Method of measurement**
Checking blood suger

**3**

**Description**
Infection
**Timepoint**
First mounth after transplantation
**Method of measurement**
Chest X ray, Urine analysis,Stool exam,

## Intervention groups

**1**

**Description**
Blood sugar(BS) is checked every 2 hours after kidney transplantation.Infusion of regular insulin is started when BS is more than 140 mg,dl and continue for 48 hours.If BS 141-149 mg/dl insulin infusion 1.5 Unit per hour,BS 150- 179 mg/dl 2U insulin,BS 180- 209 mg/dl 3U insulin,BS 210- 239 mg/dl 4U insulin,BS 240- 269 mg/dl 5U insulin,BS 270-299 mg/dl 6U insulin,BS 300- 329 mg/dl7U insulin,BS 330- 359 mg/dl 8U insulin,BS >360 mg/dl 12 U insulin.After 48 hours ,BS checks every 6 hours.If BS is more than 150 mg/dl subcutaneus insulin is given.2 U insulin per 50 mg glucose over 150 mg.
**Category**
Treatment - Drugs

**2**

**Description**
Blood sugar(BS) is checked every 6 hours after kidney transplantation. .If BS is more than 150 mg/dl subcutaneus insulin is given.2 U insulin per 50 mg glucose over 150 mg.
**Category**
Treatment - Drugs

## Recruitment centers

**1**

**Recruitment center**
**Name of recruitment center**
Transplant Department, Golestan Hospital, Ahvaz
**Full name of responsible person**
Jila Rahmanian,MD
**Street address**
Golestan Hospital, Golestan
**City**
Ahwaz

## Sponsors / Funding sources

**1**

**Sponsor**
**Name of organization / entity**
Research deputy of JondiShapourAhvaz University of Medical Sciences
**Full name of responsible person**
Jila Rahmanian,MD
**Street address**
Ahvaz Joundi Shapoor University of Medical Science,Golestan
**City**
Ahwaz
**Grant name**
**Grant code / Reference number**
**Is the source of funding the same sponsor organization/entity?**
Yes
**Title of funding source**
Research deputy of JondiShapourAhvaz 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**
Ahvaz Jondi Shapor University of Medical Science
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**Position**
Resident of internal medicine
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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*