Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

comparison of Pamidronate and calcium-D effect on bone mineral density of renal transplant patients in Isfahan

Protocol summary

Summary

The purpose of the present study is to compare the effects of Pamidronate and calcium-D on bone mineral density of renal transplant patients. The patients aged more than 18 years old of first or second living donor renal transplant in Isfahan renal transplantation centers, Khorshid & Alzahra hospitals, who haven't received corticosteroid 3 months prior to RTx, hemodynamically stabe in 24 hours after RTx, without history of previous parathyroidectomy, and not treated with bisphosphonates any time before RTx, were randomly to receive Pamidronate 90mg (Amp) immediately after RTx and 3 months after plus Calcium- vit D (500 mg Ca and 400IU vit D) for 6 months or only Calcium- vit D for 6 months. Bone mineral density is measured before and 6 months after RTx.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138903252417N2**
Registration date: **2010-09-07, 1389/06/16**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2010-09-07, 1389/06/16

Registrant information

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research, Isfahan University of Medical Sciences

Expected recruitment start date

2006-01-01, 1384/10/11

Expected recruitment end date

2010-12-31, 1389/10/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

comparison of Pamidronate and calcium-D effect on bone mineral density of renal transplant patients in Isfahan

Public title

comparison of Pamidronate and calcium-D effect on bone mineral density of renal transplant patients in Isfahan

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: adult recipients more than 18 years of first or second living donor renal transplant in Isfahan renal transplantation centers. Exclusion criteria: receiving corticosteroid 3 months prior to the renal transplantation (RTx), treating with bisphosphonates, Flouride or Calcitonin any time before RTx, hypercalcemia persisting during the first 2 weeks after RTx, history of previous parathyroidectomy, hemodynamic instability in 24 hours after RTx

Age

From **18 years** old to **100 years** old

Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **34**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Isfahan University of Medical Sciences
Street address
Isfahan University of Medical Sciences
City
Isfahan
Postal code
Approval date
2007-04-10, 1386/01/21
Ethics committee reference number
83473

Health conditions studied

1

Description of health condition studied
End Stage Renal Disease
ICD-10 code
N18.0
ICD-10 code description
End-stage renal disease

Primary outcomes

1

Description
Bone mineral density
Timepoint
before and after intervention
Method of measurement
DEXA (dual energy x ray absorptiometry)

Secondary outcomes

empty

Intervention groups

1

Description
Pamidronate 90mg plus calcium-vitamin D immediately after and after 3 months from renal transplantation
Category
Treatment - Drugs

2

Description
Calcium-vitamin D (500mg calcium and 400 unit vitamine D)
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Renal Transplantation Unit, Alzahra Hospital
Full name of responsible person
Dr Shahrzad Shahidi
Street address
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Isfahan

2

Recruitment center
Name of recruitment center
Renal Transplantation Unit, Khorshid Hospital
Full name of responsible person
Dr Shahrzad Shahidi
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Isfahan University of Medical Sciences
Full name of responsible person
Vice Chancellor for Research
Street address
Vice Chancellor for Research, Isfahan University of Medical Sciences
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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Isfahan 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

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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