

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Jul 2026

Clinical Evaluation of CAD/CAM Posterior Crowns Fabricated From Intraoral Digital Impressions In Shahid Beheshti Dental School In 2016

Protocol summary

Summary

research goal: evaluation of accuracy of dental restoration which is made in digital format. single arm study, not blinded, without placebo . 30 patient who need single crown ,but don't need deep gingival preparation are selected . the selected patient who agree to be part of study and have inclusion criteria will be selected and after normal tooth preparation the impression is made by digital intra oral scanner. the final restoration will be made by digital workflow after digital design and milling by zirconia.before delivery , the final restoration will be evaluated due to worldwide accepted clinical criteria which published by CDA and FDI.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015030921371N1**

Registration date: **2016-07-06, 1395/04/16**

Registration timing: **na**

Last update:

Update count: **0**

Registration date

2016-07-06, 1395/04/16

Registrant information

Name

Reza Eftekhari Ashtiani

Name of organization / entity

Dental University of Shahid beheshti

Country

Iran (Islamic Republic of)

Phone

+98 21 2217 4250

Email address

reza.eftekhariashtiani@sbmu.ac.ir

Recruitment status

Not enough for processing

Funding source

Shahid Beheshti Dental School

Expected recruitment start date

2016-12-21, 1395/10/01

Expected recruitment end date

2015-11-30, 1394/09/09

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical Evaluation of CAD/CAM Posterior Crowns Fabricated From Intraoral Digital Impressions In Shahid Beheshti Dental School In 2016

Public title

Use of New Technology In Making Dental Crown

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria :individual who needs crowns for her/him teeth in form of single crown; accept to be part of study;healthy gingiva;ability to accept 1mm deep chamfer preparation on tooth exclusion criteria:extension of caries beneath the sulcus; extension of old filling beneath the sulcus

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**
Randomization (investigator's opinion)
N/A
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Not used
Assignment
Single
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Shahid beheshti medical university
Street address
Evin, Daneshjo Ave.
City
tehran
Postal code
1983963113
Approval date
2010-08-20, 1389/05/29
Ethics committee reference number
IR.SBMU.RIDS.REC.1394.62

Health conditions studied

1

Description of health condition studied
Repair Of Destroyed Teeth By Caries
ICD-10 code
k02.1
ICD-10 code description
Caries Of Dentine

Primary outcomes

1

Description
Occlusal Adaptation
Timepoint
During Study
Method of measurement
Clinical Evaluation

2

Description
Internal adaptation
Timepoint

during study
Method of measurement
Microscopic evaluation

3

Description
Proximal Adaptation
Timepoint
During Study
Method of measurement
Clinical Evaluation

Secondary outcomes

empty

Intervention groups

1

Description
digital impression the geometry of oral cavity and tooth is captured by intra oral scanner
Category
N/A

Recruitment centers

1

Recruitment center
Name of recruitment center
Dental University Of Shahid Beheshti
Full name of responsible person
Dr Reza Eftekhari Ashtiani
Street address
Daneshjo Ave., Evin
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Dental University of Shahid Beheshti
Full name of responsible person
Dr Afshin Zarghi
Street address
Daneshjo Ave., Evin
City
Tehran
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Dental University of Shahid Beheshti
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

Dental University of Shahid Beheshti

Full name of responsible person

Dr Reza Eftekhar Ashtiani

Position

Chair, School of Dental Technology

Other areas of specialty/work

Street address

Daneshjo Ave., Evin

City

Tehran

Postal code

Phone

+98 21 2242 3080

Fax

Email

reza.eftekarashtiani@sbmu.ac.ir

Web page address

Tehran

Postal code

Phone

+98 21 2242 3080

Fax

Email

reza.eftekarashtiani@sbmu.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Dental University of Shahid Beheshti

Full name of responsible person

Dr Reza Eftekhar Ashtiani

Position

Chair, School of Dental Technology

Other areas of specialty/work

Street address

Daneshjo Ave., Evin

City

Tehran

Postal code

Phone

+98 21 2242 3080

Fax

Email

reza.eftekarashtiani@sbmu.ac.ir

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Dental University of Shahid Beheshti

Full name of responsible person

Dr Reza Eftekhar Ashtiani

Position

Chair, School of Dental Technology

Other areas of specialty/work

Street address

Daneshjo Ave., Evin

City

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