Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 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 desgin 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 Eftekhar Ashtiani
Name of organization / entity
Dental University of Shahid beheshti
Country
Iran (Islamic Republic of)
Phone
+98 21 2217 4250
Email address
reza.eftekharashtiani@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:extention of caries beneth the sulcus; extention of old filling beneth 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 Eftekhar 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

DrReza Eftekhar Ashtiani

Position

Chair, School of Dental Technology

Other areas of specialty/work

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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