

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Jul 2026

Clinical comparison of three bonding technique in restoration of Non carious cervical lesion

Protocol summary

Summary

The objective of this randomized, double blind trial is to investigate the effect of three bonding technique on the restoration of Non caries cervical lesion (NCCL) in teeth. In this study 12 patients with 3 NCCL in their teeth who meet the inclusion/exclusion criteria will be recruited and randomly any NCCL in one patient restored with Optibond FL or Clearfil SE bond or Ethanol wet bonding. Retention rate, marginal discoloration, Secondary caries, Post operative sensitivity, marginal defect, tooth vitality will be measured in the baseline and 6-month recall and compared between groups,

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201111288242N1**
Registration date: **2012-01-17, 1390/10/27**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-01-17, 1390/10/27

Registrant information

Name

Mojgan Rafizade

Name of organization / entity

Faculty of dentistry

Country

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Recruitment status

Recruitment complete

Funding source

Esfahan University of Medical Sciences

Expected recruitment start date

2011-12-31, 1390/10/10

Expected recruitment end date

2012-06-30, 1391/04/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Clinical comparison of three bonding technique in restoration of Non carious cervical lesion

Public title

Evaluation of ethanol wet bonding

Purpose

Treatment

Inclusion/Exclusion criteria

The patients with good general health and good oral condition used to this study. But patients with active, untreated periodontal disease, uncontrolled carious, xerostomia, orthodontic appliance, denture and/or bleaching or Florid therapy pregnancy patient eliminate from this research

Age

From **30 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **36**

Randomization (investigator's opinion)

Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Esfahan university-dentistry faculty-reserch center
Street address
Esfahan university-dentistry faculty
City
Esfahan
Postal code
Approval date
2011-07-09, 1390/04/18
Ethics committee reference number
390350

Health conditions studied

1

Description of health condition studied

Non carious cervical lesion
ICD-10 code
K03
ICD-10 code description
Other diseases of hard tissues of teeth

Primary outcomes

1

Description

restoration retention, tooth vitality, post - operative sensitivity, caries occurrence , marginal discoloration, enamel and dentin marginal integrity
Timepoint
24 hours and 6 months
Method of measurement
Restoration retention: Lost or No, Enamel and dentin marginal defect: using a sharp probe and a mirror. Marginal discoloration: to be or not to be of discoloration in margin. Caries occurrence: observation, Post-operative sensitivity: by blowing a stream of air for 3 sec at distance of 2 to 3 mm while shielding the adjacent teeth with finger, Vitality: by holding a cold carbon dioxide ice stick to the tooth

Secondary outcomes

empty

Intervention groups

1

Description

1- clearfil SEbond with manufacture structure 2- optibond FL with manufacture structure 3- ethanol wet bonding technique, after acid etching and rinsing the surface was treated with 2drops of 100% ethanol followed by a 10 sec waiting period. The surface was then gently air dried for 5 sec before applying another 2 drop of 100% ethanol and waiting another 10 sec. excess ethanol was removed from the surface with absorbent paper and applying hydrophob resin of optibondFL.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Esfahan University Dentistry Faculty-Professional Restorative part
Full name of responsible person
Street address
City
Esfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Esfahan University of Medical Science
Full name of responsible person
Dr Vajiheh Sadat Mortazavi
Street address
professional restorative part of dentistry faculty
City
Esfahan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Esfahan University of Medical Science

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
Esfahan University Dentistry Faculty
Full name of responsible person
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Person responsible for scientific inquiries

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Person responsible for updating data

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Other areas of specialty/work
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00
Fax
Email
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