



استراتژی جستجو در پایمد

سیما اسماعیل زاد- دانشکده دندانپزشکی تبریز

بهمن 1398 / feb 2020

یک سوال تحقیق بر اساس الگوی پیکو بنویسید

استراتژی شما مبتنی بر سوالی است که شما می پرسید – یک سؤال کاملاً قاعده مند و کوتاه شده برای یک

استراتژی جستجوی موفق ضروری است

مثال

آیا مسواک برقی بهتر از مسواک دستی کار می کند تا پلاک هنگام استفاده توسط کودکان برداشته شود؟

مثال

آیا روشهای درمانی برای رفع گرفتگی عضلات در بیماران مبتلا به ALS وجود دارد؟

ایجاد استراتژی جستجو

1

تعیین اجزای کلیدی سوال

مهمترین مفاهیم در جستجوی شما کدام واژه ها هستند؟

آیا مسواک برقی بهتر از مسواک دستی کار می کند تا پلاک هنگام استفاده توسط کودکان برداشته شود؟

آیا روشهای درمانی برای رفع گرفتگی عضلات در بیماران مبتلا به ALS وجود دارد؟

ایجاد استراتژی جستجو

مترادف کلیدواژه ها را تعیین کنید

یک بیماری می تواند نام های مختلف داشته باشد

Lou Gehrig

OR

ALS

OR

Amyotrophic Lateral Sclerosis

یک دارو می تواند نام های مختلف داشته باشد

Generic trade names (ie. fluoxetine **OR** prozac)

Trade names can vary by country

Developing a search strategy

3

سرعنوان های مش مورد استفاده را تعیین کنید

MeSH مخفف عنوان Subject Medical است.

MeSH واژگان کنترل شده ای است که برای توصیف مقالات در PubMed استفاده می شود.

هر مقاله در PubMed با سرعنوان های MeSH برچسب گذاری میشود که نشان می دهد مقاله در باره چیست.

مثال برای MeSH

فرض کنیم یکی از کلید واژه های شما "Cosmetic Dentistry" است. در پایگاه داده MeSH جستجو کنید تا ببینید MeSH چه سرعنوانی را برای توصیف این مفهوم بکار برده است.

The screenshot shows the PubMed search interface. At the top, there are links for "NCBI", "Resources", and "How To". On the right, there is a "Sign in to NCBI" link. The main search area features the "PubMed.gov" logo and "US National Library of Medicine National Institutes of Health" text. A dropdown menu is set to "MeSH", and the search term "cosmetic dentistry" is entered in the search box. A "Search" button is to the right of the search box. Below the search box, there is a blue banner with the text "Click here to try the New PubMed!" and "An updated version of PubMed is now available. Come see the new improvements to the interface!". There are also icons for a magnifying glass, a head with a lightbulb, a globe, and a download arrow.

از منوی کشویی
سمت چپ MeSH
را انتخاب کنید

واژه جستجو را وارد کنید

Esthetics, Dental

Skills, techniques, standards, and principles used to improve the art and sym-
function of the teeth, mouth, and face. (From Boucher's Clinical Dental Re-
Year introduced: 1965

PubMed search builder options

Subheadings:

- | | | |
|--|--|--|
| <input type="checkbox"/> adverse effects | <input type="checkbox"/> instrumentation | <input type="checkbox"/> standards |
| <input type="checkbox"/> classification | <input type="checkbox"/> methods | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> economics | <input type="checkbox"/> organization and administration | <input type="checkbox"/> therapeutic use |
| <input type="checkbox"/> education | <input type="checkbox"/> pharmacology | <input type="checkbox"/> trends |
| <input type="checkbox"/> ethics | <input type="checkbox"/> psychology | <input type="checkbox"/> veterinary |
| <input type="checkbox"/> history | | |

 Restrict to MeSH Major Topic. Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): E06.420

MeSH Unique ID: D004955

Entry Terms:

- Esthetic, Dental
- Dental Esthetic
- Dental Esthetics
- Aesthetics, Dental
- Cosmetic Dentistry
- Cosmetic Dentistries
- Dentistries, Cosmetic
- Dentistry, Cosmetic

اصطلاح منتخب مش برای "Cosmetic dentistry"
است "Esthetic, Dental"

Add to search builder AND ▾

Search PubMed

YouTube Tutorial

Related information

PubMed

PubMed - Major Topic

Clinical Queries

NLM MeSH Browser

Recent Activity[Turn Off](#) [Clear](#)

- Esthetics, Dental MeSH
- cosmetic dentistry (1) MeSH
- dental esthetic (1) MeSH
- esthetic dentistry (1) MeSH

این اصطلاحات ممکن است قبل از اضافه
شدن سرعنوان "Esthetic, Dental" به
پایمده، استفاده شده باشند

**در جستجو میتوان به جای همه این کلمات مترادف، از سرعنوان
منتخب مشی "Esthetic, Dental" استفاده نمود.
زمانی که شما قادر به شناسایی اصطلاح صحیح در MeSH شوید، عمل
جستجو برای شما بسیار آسان خواهد شد**

MeSH as controlled vocabulary : Strengths

1

You can make a subject heading a “Major Topic”

Display Settings: Full

Dental Plaque

A film that attaches to teeth, often causing DENTAL CARIES and GINGIVITIS. It is composed of MUCINS, secreted from salivary glands, and microorganisms.

Year introduced: 1965(1964)

PubMed search builder options

[Subheadings:](#)

- | | | |
|---|---------------------------------------|---|
| <input type="checkbox"/> analysis | <input type="checkbox"/> ethnology | <input type="checkbox"/> physiopathology |
| <input type="checkbox"/> blood | <input type="checkbox"/> etiology | <input type="checkbox"/> prevention and control |
| <input type="checkbox"/> chemically induced | <input type="checkbox"/> genetics | <input type="checkbox"/> psychology |
| <input type="checkbox"/> chemistry | <input type="checkbox"/> history | <input type="checkbox"/> radiography |
| <input type="checkbox"/> classification | <input type="checkbox"/> immunology | <input type="checkbox"/> radiotherapy |
| <input type="checkbox"/> complications | <input type="checkbox"/> metabolism | <input type="checkbox"/> surgery |
| <input type="checkbox"/> diagnosis | <input type="checkbox"/> microbiology | <input type="checkbox"/> therapy |
| <input type="checkbox"/> diet therapy | <input type="checkbox"/> mortality | <input type="checkbox"/> trans |
| <input type="checkbox"/> drug effects | <input type="checkbox"/> nursing | <input type="checkbox"/> ultra |
| <input type="checkbox"/> drug therapy | <input type="checkbox"/> parasitology | <input type="checkbox"/> ultra |
| <input type="checkbox"/> economics | <input type="checkbox"/> pathology | <input type="checkbox"/> veterinar |
| <input type="checkbox"/> enzymology | <input type="checkbox"/> pharmacology | <input type="checkbox"/> virology |
| <input type="checkbox"/> epidemiology | <input type="checkbox"/> physi | |

Restrict to MeSH Major Topic.

Do not include MeSH terms found below this term in the MeSH hierarchy.

Send to:

PubMed search builder

Add to search builder

AND

Search PubMed

این بدان معناست که پایگاه داده فقط مقالاتی را پیدا می کند که "پلاک دندانپزشکی" به عنوان موضوع اصلی در نظر گرفته شود

هنگامی که اصطلاح منتخب مش را "Explode" کنید. بانک اطلاعاتی تمام اصطلاحات موجود در زیر سلسله مراتب را جستجو می کند.

Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): C07.465.714.258

Entry Terms:

- Disease, Gingival
- Diseases, Gingival
- Gingival Disease
- Epulides
- Epulis
- Gingivosis
- Gingivoses

[All MeSH Categories](#)

[Diseases Category](#)

[Stomatognathic Diseases](#)

[Mouth Diseases](#)

[Periodontal Diseases](#)

[Gingival Diseases](#)

[Gingival Hemorrhage](#)

[Gingival Neoplasms](#)

[Gingival Overgrowth](#)

[Fibromatosis, Gingival](#)

[Gingival Hyperplasia](#)

[Gingival Hypertrophy](#)

[Gingival Recession](#)

[Gingivitis](#)

[Gingival Pocket](#)

[Gingivitis, Necrotizing Ulcerative](#)

[Granuloma, Giant Cell](#)

[Pericoronitis](#)

در این قسمت اصطلاح مش
"Gingival Diseases" به
صورت سلسله مراتب قرار گرفته

هنگامی که اصطلاح MeSH
"بیماری های لثه" را جستجو می
کنید ، PubMed این اصطلاح را
"Explode" می کند ، و تمام
اصطلاحات موجود در زیر آن
را جستجو می کند

جستجو با استفاده از اصطلاحات MeSH معمولاً نتایج کمتری و مرتبط تر به شما می دهد.

Gingival Diseases

Year introduced: 1965

PubMed search builder options

[Subheadings:](#)

- | | | |
|---|---------------------------------------|--|
| <input type="checkbox"/> blood | <input type="checkbox"/> ethnology | <input type="checkbox"/> prevention |
| <input type="checkbox"/> chemically induced | <input type="checkbox"/> etiology | <input type="checkbox"/> psychology |
| <input type="checkbox"/> classification | <input type="checkbox"/> genetics | <input type="checkbox"/> radiography |
| <input type="checkbox"/> complications | <input type="checkbox"/> history | <input type="checkbox"/> radiotherapy |
| <input type="checkbox"/> congenital | <input type="checkbox"/> immunology | <input type="checkbox"/> rehabilitation |
| <input type="checkbox"/> diagnosis | <input type="checkbox"/> injuries | <input type="checkbox"/> surgery |
| <input type="checkbox"/> drug therapy | <input type="checkbox"/> metabolism | <input type="checkbox"/> therapy |
| <input type="checkbox"/> economics | <input type="checkbox"/> microbiology | <input type="checkbox"/> ultrasonography |
| <input type="checkbox"/> embryology | <input type="checkbox"/> mortality | <input type="checkbox"/> veterinary |
| <input type="checkbox"/> enzymology | <input type="checkbox"/> parasitology | <input type="checkbox"/> virology |
| <input type="checkbox"/> epidemiology | <input type="checkbox"/> pathology | |

Restrict to MeSH Major Topic.

Do not include MeSH terms found below this term in the MeSH hierarchy.

Click "Add to search builder"

PubMed search builder

"Gingival Diseases" [Mesh]

Add to search builder

AND ▼

Search PubMed

Finally, click "Search PubMed" to perform the search

بہتر است برای هر یک از مفاهیم خود بطور جداگانه همین روند را طی کنید. بعداً می توانید آنها را ترکیب کنید

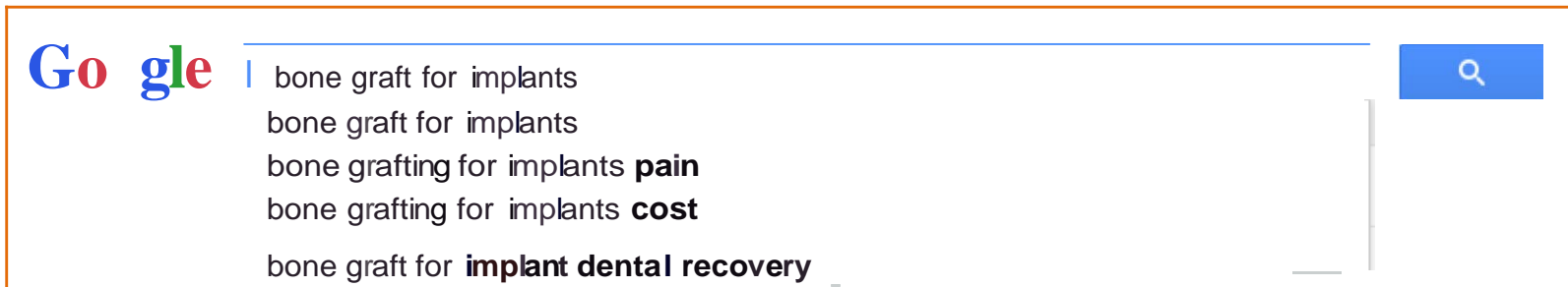


MeSH as controlled vocabulary :

Weaknesses

- اصطلاحات MeSH بعضی اوقات کلمات مورد استفاده روزمره شما نیستند (یعنی شهودی نیستند).
- اصطلاحات MeSH اغلب منعکس کننده کل تشکیلات دارویی ، پیشرفت های اخیر و غیره نیست.
- وقتی مقالات جدید به PubMed وارد می شوند ، بلافاصله با اصطلاحات MeSH ایندکس نمی شوند یا برجسب گذاری نمی شوند - همیشه تأخیر وجود دارد.

از زبان طبیعی برای جستجو استفاده کنید



همان کاری که هر روز در گوگل انجام می دهیم

8 NCBI Resources G How To I

Pub Meds01

PubMe-0

... knee injuries child athletes

Search

U.S. National Library of Medicine
NIH

RSS Save search Advanced

می توانیم در جستجوی پابمد نیز انجام دهیم

Natural language (free text searching)

Strengths:

- Very quick and effective
- Useful for new concepts that might not be indexed yet

Weaknesses:

- High recall, low accuracy
- Does not deal well with synonyms, variant spellings

What are you telling me?

You want accuracy and a manageable number of articles, but you also want to make sure not to miss new articles about new concepts.



So...

You will have to do both types of searches:
MeSH and natural language

Two ways of searching : MeSH & natural language/free text

1

Gingival Diseases

Year introduced: 1965

PubMed search builder options


Subheadings:

- | | |
|---|---------------------------------------|
| <input type="checkbox"/> blood | <input type="checkbox"/> ethnology |
| <input type="checkbox"/> chemically induced | <input type="checkbox"/> etiology |
| <input type="checkbox"/> classification | <input type="checkbox"/> genetics |
| <input type="checkbox"/> complications | <input type="checkbox"/> history |
| <input type="checkbox"/> congenital | <input type="checkbox"/> immunology |
| <input type="checkbox"/> diagnosis | <input type="checkbox"/> injuries |
| <input type="checkbox"/> drug therapy | <input type="checkbox"/> metabolism |
| <input type="checkbox"/> economics | <input type="checkbox"/> microbiology |
| <input type="checkbox"/> embryology | <input type="checkbox"/> mortality |
| <input type="checkbox"/> enzymology | <input type="checkbox"/> parasitology |
| <input type="checkbox"/> epidemiology | <input type="checkbox"/> pathology |
- Restrict to MeSH Major Topic.
 Do not include MeSH terms found below this term in the MeSH hierarchy.

Click "Add to search builder"

PubMed search builder
"Gingival Diseases" [Mesh]
Add to search builder AND
Search PubMed

Finally, click "Search PubMed" to perform the search

 Remember to do this for each concept!

2

NCBI Resources How To

PubMed.gov

PubMed

gum disease children food

Search

US National Library of Medicine
National Institutes of Health

RSS Save search Advanced

Combining searches

PubMed.gov
US National Library of Medicine
National Institutes of Health

PubMed

RSS [Save search](#) [Advanced](#)

PubMed saves all your searches as you go. For a list of your searches, click "Advanced"

Use the builder below to create your search

[Edit](#) [Clear](#)

Builder

AND

[Show index list](#)

[Show index list](#)

or [Add to history](#)

History

[Download history](#) [Clear history](#)

| Search | Add to builder | Query | Items found | Time |
|---------------------|---------------------|----------------------------------|-----------------------|----------|
| #71 | Add | Search gum disease children food | 261 | 14:39:05 |
| #70 | Add | Search "Eating"[Mesh] | 55067 | 14:38:31 |
| #69 | Add | Search "Gingival Diseases"[Mesh] | 21626 | 14:38:18 |

Combining searches

#69

[Edit](#) [Clear](#)

Builder


Recent Query ⊖

AND ⊖ ⊕ [Show index list](#)

or [Add to history](#)

History [Download history](#) [Clear history](#)

| Search | Add to builder | Query | Items found | Time |
|---------------------|---------------------|----------------------------------|-----------------------|----------|
| #71 | Add | Search gum disease children food | 261 | 14:39:05 |
| #70 | Add | Search "Eating"[Mesh] | 55067 | 14:38:31 |
| #69 | Add | Search "Gingival Diseases"[Mesh] | 21626 | 14:38:18 |



Click "Add," and your search will appear in the Search Builder

Combining searches

(#69) AND #70

[Edit](#)

[Clear](#)

Builder

Recent Query

AND

AND [Show index list](#)

or [Add to history](#)

History

[Download history](#) [Clear history](#)

| Search | Add to builder | Query | Items found | Time |
|---------------------|---------------------|----------------------------------|-----------------------|----------|
| #71 | Add | Search gum disease children food | 261 | 14:39:05 |
| #70 | Add | Search "Eating"[Mesh] | 55067 | 14:38:31 |
| #69 | Add | Search "Gingival Diseases"[Mesh] | 21626 | 14:38:18 |

Do the same with your next search to combine them. Click "Search."

The reality of PubMed searching

- You might not get what you're looking for on the first search.
- You might have to combine searches in different ways, try out different MeSH terms, and try different free text words.
- Remember that you can combine your free text searches with your MeSH searches to make sure you got everything.
- Be patient and keep trying.

What if I have too many references?

- Adding new and more specific terms to your search strategy will often lower your results
- Searching a MeSH term as a “Major Topic” will usually lower your results

Display Settings: Full

Dental Plaque

A film that attaches to teeth, often causing DENTAL CARIES and GINGIVITIS. It is composed of MUCINS, secreted from salivary glands, and microorganisms.

Year introduced: 1965(1964)

PubMed search builder options

[Subheadings:](#)

- | | | |
|---|---------------------------------------|---|
| <input type="checkbox"/> analysis | <input type="checkbox"/> ethnology | <input type="checkbox"/> physiopathology |
| <input type="checkbox"/> blood | <input type="checkbox"/> etiology | <input type="checkbox"/> prevention and control |
| <input type="checkbox"/> chemically induced | <input type="checkbox"/> genetics | <input type="checkbox"/> psychology |
| <input type="checkbox"/> chemistry | <input type="checkbox"/> history | <input type="checkbox"/> radiography |
| <input type="checkbox"/> classification | <input type="checkbox"/> immunology | <input type="checkbox"/> radiotherapy |
| <input type="checkbox"/> complications | <input type="checkbox"/> metabolism | <input type="checkbox"/> surgery |
| <input type="checkbox"/> diagnosis | <input type="checkbox"/> microbiology | <input type="checkbox"/> therapy |
| <input type="checkbox"/> diet therapy | <input type="checkbox"/> mortality | <input type="checkbox"/> transmission |
| <input type="checkbox"/> drug effects | <input type="checkbox"/> nursing | <input type="checkbox"/> ultrasonography |
| <input type="checkbox"/> drug therapy | <input type="checkbox"/> parasitology | <input type="checkbox"/> ultrastructure |
| <input type="checkbox"/> economics | <input type="checkbox"/> pathology | <input type="checkbox"/> veterinary |
| <input type="checkbox"/> enzymology | <input type="checkbox"/> pharmacology | <input type="checkbox"/> virology |
| <input type="checkbox"/> epidemiology | <input type="checkbox"/> physiology | |

Restrict to MeSH Major Topic.

Do not include MeSH terms found below this term in the MeSH hierarchy.

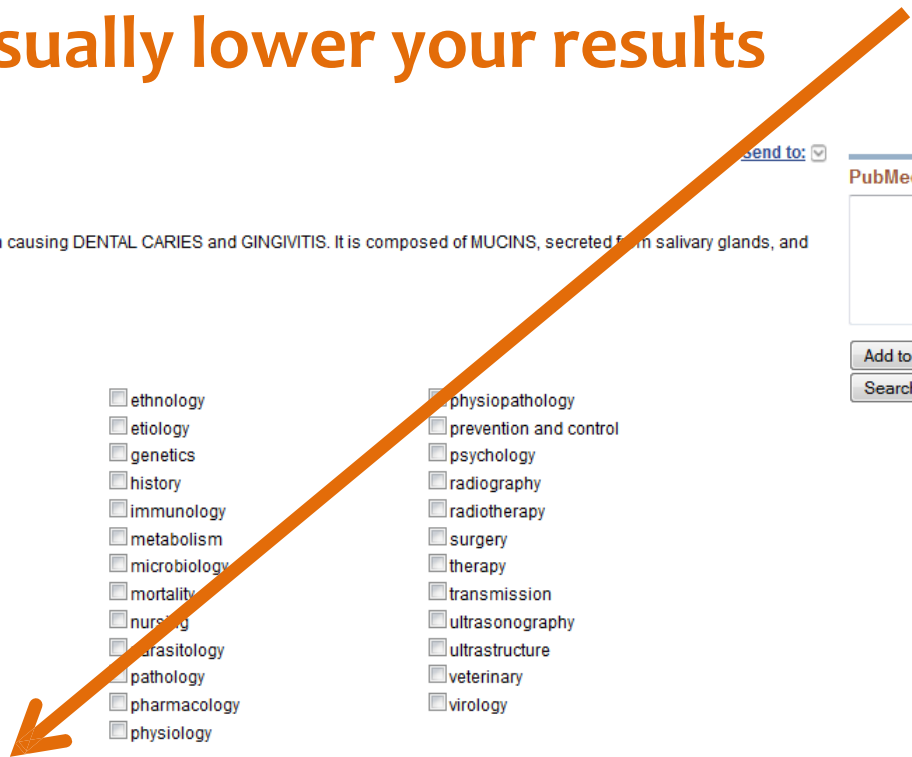
Send to:

PubMed search builder

Add to search builder

AND

Search PubMed



What if I have too many references?

- NOT exploding a term will lower your numbers

Display Settings: Full

Gingival Diseases

Year introduced: 1965

PubMed search builder options

[Subheadings:](#)

- | | | |
|---|---------------------------------------|---|
| <input type="checkbox"/> blood | <input type="checkbox"/> ethnology | <input type="checkbox"/> physiopathology |
| <input type="checkbox"/> chemically induced | <input type="checkbox"/> etiology | <input type="checkbox"/> prevention and control |
| <input type="checkbox"/> classification | <input type="checkbox"/> genetics | <input type="checkbox"/> psychology |
| <input type="checkbox"/> complications | <input type="checkbox"/> history | <input type="checkbox"/> radiography |
| <input type="checkbox"/> congenital | <input type="checkbox"/> immunology | <input type="checkbox"/> radiotherapy |
| <input type="checkbox"/> diagnosis | <input type="checkbox"/> injuries | <input type="checkbox"/> rehabilitation |
| <input type="checkbox"/> drug therapy | <input type="checkbox"/> metabolism | <input type="checkbox"/> surgery |
| <input type="checkbox"/> economics | <input type="checkbox"/> microbiology | <input type="checkbox"/> therapy |
| <input type="checkbox"/> embryology | <input type="checkbox"/> mortality | <input type="checkbox"/> ultrasonography |
| <input type="checkbox"/> enzymology | <input type="checkbox"/> parasitology | <input type="checkbox"/> veterinary |
| <input type="checkbox"/> epidemiology | <input type="checkbox"/> pathology | <input type="checkbox"/> virology |

- Restrict to MeSH Major Topic.
- Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): C07.465.714.258

Entry Terms:

Check this box to
“unexplode” the MeSH
term

Add to search builder AND

Search PubMed

[YouTube Tutorial](#)

Related information

[PubMed](#)

[PubMed - Major Topic](#)

[Clinical Queries](#)

[NLM MeSH Browser](#)

[MedGen](#)

Search details

"gingival diseases"[MeSH Terms] OR
gingival disease[Text Word]

What if I have too many references?

- Limits such as date/language/article type will lower your numbers

The image shows a screenshot of the PubMed website search results page. The page header includes the NCBI logo, 'Resources' and 'How To' links, the 'PubMed.gov' logo, and the search criteria '(#4) AND #2'. The search results show 'Results: 1 to 20 of 2' and a 'Send to:' dropdown menu. A list of search results is visible, including titles like 'Quality of life outcomes after third molar removal...' and 'Surgical and prosthetic...'. Three blue callout boxes with white text and arrows provide instructions: 1. 'Filters are found to the left of your search results' points to the left-hand filter sidebar. 2. 'Click on the chosen filter to activate it' points to the '5 years' filter option under 'Publication dates'. 3. 'Click to see more filters' points to the 'Show additional filters' link at the bottom of the sidebar. The sidebar itself is outlined in orange and contains sections for 'Article types', 'Text availability', 'Publication dates', and 'Species', each with a 'Clear all' link and a 'Show additional filters' link.

Filters are found to the left of your search results

Click on the chosen filter to activate it

Click to see more filters

What if I have too few references?

- Remove one of your search terms – ideally the least important one
- Remove limits (filters)

The image shows a screenshot of the PubMed website. At the top, the NCBI logo and 'Resources' and 'How To' links are visible. The search bar contains the query '(#4) AND #2'. Below the search bar, there are links for 'RSS', 'Save search', and 'Advanced'. The main content area shows search results for 'Quality of life outcomes in patients with pericoronitis'. The results are sorted by 'Recently Added' and are on page 1 of 2. There are two blue callout boxes with white text and orange arrows pointing to specific elements on the page. The first callout box says 'Click "Clear" to remove a filter' and points to the 'clear' link next to the first search result. The second callout box says 'Click "Clear all" to remove all filters you have used' and points to the 'Clear all' link in the left sidebar. The left sidebar contains various filter categories such as 'Article types', 'Text availability', 'Publication dates', and 'Species'. The '5 years' filter under 'Publication dates' is currently selected.

NCBI Resources How To

PubMed.gov
US National Library of Medicine
National Institutes of Health

PubMed (#4) AND #2
RSS Save search Advanced

Show additional filters Display Settings: Summary, 20 per page, Sorted by Recently Added Send to:

Clear all

Article types
Clinical Trial
Review
more ...

Text availability
Abstract available
Free full text available
Full text available

Publication dates
5 years
10 years
Custom range...

Species
Humans

Clear all

Show additional filters

Results: 1 to 20 of 25
Filters activated: published in the last 5 years Clear all

1. Bradshaw S, et al. Quality of life outcomes in patients with pericoronitis. J Oral Maxillofac Surg. 2012 Jun;74(6):1115-24. PMID: 22868111 [PubMed - indexed for MEDLINE] Related citations

clear Outcome of implant-supported overdenture treatment—a survey of 58 patients. Gerodontology. 2012 Jun;29(2):e577-84. doi: 10.1111/j.1744-3258.2011.00524.x. Epub 2012 Jan 10. PMID: 22616909 [PubMed - indexed for MEDLINE] Related citations

2. Kuoppala R, Näpänkangas R, Raustia A. Gerodontology. 2012 Jun;29(2):e577-84. doi: 10.1111/j.1744-3258.2011.00524.x. Epub 2012 Jan 10. PMID: 22616909 [PubMed - indexed for MEDLINE] Related citations

3. Surgical and fibromatous lesions of the oral cavity. Millet C, Rodier J. Gerodontology. 2012 Jun;29(2):e577-84. doi: 10.1111/j.1744-3258.2011.00524.x. Epub 2012 Jan 10. PMID: 22612835 [PubMed - indexed for MEDLINE] Related citations

Click "Clear" to remove a filter

Click "Clear all" to remove all filters you have used

A Tip: What to do when you find one really good article

PubMed.gov
US National Library of Medicine
National Institutes of Health

PubMed (#13) AND #11
RSS Save search Advanced

Show additional filters

Clear all

Article types
Clinical Trial
Review
more ...

Text availability
Abstract available
Free full text available
Full text available

Publication dates
5 years
10 years
Custom range...

Species
Humans
Other Animals

Sex
clear
Female
Male

Clear all

Show additional filters

Display Settings: Summary, 20 per page, Sorted by Recently Added

Results: 1 to 20 of 1294
Page 1 of 65

Filters activated: Female Clear all

- [A 1-year prospective cohort study on mandibular overdentures retained by mini dental implants.](#)
Scepanovic M, Calvo-Guirado JL, Markovic A, Delgado-Ruiz R, Todorovic A, Milicic B, Mistic T.
Eur J Oral Implantol. 2012 Winter;5(4):367-79.
PMID: 23304690 [PubMed - indexed for MEDLINE]
[Related citations](#)
- [Cemented versus screw-retained implant-supported single-tooth crowns: a 10-year randomised controlled trial.](#)
Vigolo P, Mutinelli S, Givani A, Stellini E.
Eur J Oral Implantol. 2012 Winter;5(4):355-64.
PMID: 23304689 [PubMed - indexed for MEDLINE]
[Related citations](#)
- [Immediate versus delayed loading of single mandibular molars. One year results from a randomised controlled trial.](#)
Meloni SM, De Riu G, Pisano M, De Riu N, Tullio A.
Eur J Oral Implantol. 2012 Winter;5(4):345-53.
PMID: 23304688 [PubMed - indexed for MEDLINE]
[Related citations](#)
- [Immediate loading of single implants inserted flapless with medium or high insertion torque: a 6-month follow-up of a split-mouth randomised controlled trial.](#)
Cannizzaro G, Leone M, Ferri V, Viola P, Federico G, Esposito M.
Eur J Oral Implantol. 2012 Winter;5(4):333-42.
PMID: 23304687 [PubMed - indexed for MEDLINE]
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3. **Immediate versus delayed loading of single mandibular molars. One-year results from a randomised controlled trial.**

[Meloni SM](#), [De Riu G](#), [Pisano M](#), [De Riu N](#), [Tullio A](#).

University Hospital of Sassari, Italy. melonisilviomario@yahoo.it

Abstract

PURPOSE: To compare the outcome of immediate non-occlusal loading and that of delayed implant loading in the bilateral replacement of single mandibular molars.

MATERIALS AND METHODS: This study was designed as a randomised, controlled, split-mouth trial. Twenty patients with bilaterally missing first mandibular molars had one of the sites to be restored randomly assigned to be treated with immediately or conventionally loaded single implants. A total of 40 implants were bilaterally installed. All the implants were inserted in healed healthy bone with an insertion torque between 35 and 45 Nm. One molar was restored with a non-occluding temporary crown within 24 h after implant placement, while the contralateral molar was restored with a definitive crown 4 to 5 months later, according to a two-stage procedure. Final restorations were provided 4 to 5 months after implant placement for all implants. Outcome measures were implant survival, complications, radiographic marginal bone-level changes, PPD and BOP.

RESULTS: No patients dropped out and no implant failed. Only minor prosthetic complications were observed (2 provisional acrylic crown fractures in the immediate loading group and 2 ceramic chipping in the delayed loading group). Mean marginal bone loss was 0.83 ± 0.16 mm (95% CI 0.75 to 0.91) in the immediate loading group and 0.86 ± 0.16 mm (95% CI 0.78 to 0.94) in the conventional loading group and no statistically significant differences between the two groups were observed ($P = 0.530$). Mean PPD and BOP values were, respectively, 2.76 ± 0.48 (95% CI 2.55 to 2.97) and 1.30 ± 0.73 (95% CI 0.98 to 1.62) in the immediate loading group, and 2.70 ± 0.37 (95% CI 2.54 to 2.86) and 1.40 ± 0.75 (95% CI 1.07 to 1.73) in the conventional loading group. Also, a statistical comparison of BOP and PPD did not show any significant difference ($P = 0.163$ and $P = 0.652$, respectively).

CONCLUSIONS: Within the limitations of this study, the present data seem to confirm the hypothesis that the clinical outcome of immediate versus delayed loading of implants in single mandibular molar sites is comparable.

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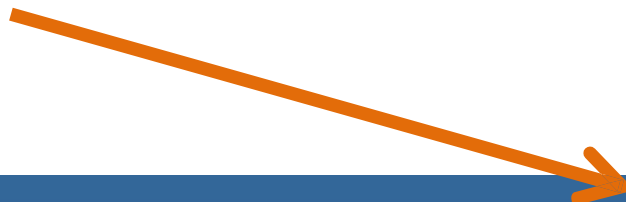
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