

دانشگاه علوم پزشکی و خدمات بهداشتی درمانی شهید بهشتی
مدیریت منابع علمی، کتابخانه مرکزی و اسناد

راهنمای استفاده از Pubmed

تهیه کننده:

زهرا دین پژوه

پاییز ۱۳۹۴

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Pub med



Pubmed

پاب مد یک پایگاه اطلاعاتی آنلاین رایگان است که توسط مرکز ملی اطلاعات بیوتکنولوژی آمریکا در کتابخانه ملی پزشکی

آمریکا به وجود آمده است. این منبع مهم دارای بیش از ۲۱ میلیون مدرک از آمریکا و بیش از ۷۰ کشور جهان در مورد

متون زیست پزشکی مدلاین می باشد. با توجه به اینکه هزینه اشتراک مدلاین زیاد بوده و امکان بهره مندی از آن برای افراد

و سازمان ها وجود نداشت کتابخانه ملی پزشکی آمریکا اقدام به ایجاد موتور جستجوی رایگان پاب مد نمود که در واقع

دسترسی به محتوای مدلاین را امکان پذیر می کند. پوشش این پایگاه از نظر تاریخ به ۱۹۵۵ بر می گردد. و از لینک زیر قابل

دسترسی می باشد. روش دسترسی

۱. لینک مستقیم www.pubmed.gov

۲. لینک غیرمستقیم <http://www.ncbi.nlm.nih.gov/pubmed/>

انواع جستجو در پایاد

Basic search

✓ جستجوی ساده

Advanced search

✓ جستجوی پیشرفته

Mesh databases

✓ جستجو از طریق



Basic search

در جستجوی ساده میتوان از امکان Autosuggestion به منظور تسهیل و تسریع در جستجوی کلیدواژه مورد استفاده نمود.

The screenshot shows the PubMed website interface. At the top, there is a navigation bar with 'NCBI Resources' and 'How To' menus. The main header includes the 'PubMed.gov' logo and the text 'US National Library of Medicine National Institutes of Health'. A search bar contains the text 'PubMed' and a dropdown menu is open, displaying a list of suggestions for the search term 'pain'. The suggestions include: back pain, low back pain, chronic pain, neuropathic pain, pain management, pain syndrome, neck pain, regional pain, abdominal pain, cancer pain, postoperative pain, regional pain syndrome, complex regional pain, pain treatment, chest pain, pelvic pain, pain physical, patellofemoral pain, shoulder pain, and knee pain. A 'Turn off' button is visible at the bottom right of the dropdown menu. On the left side of the page, there is a section titled 'Using PubMed' with links to 'PubMed Quick Start Guide', 'Full Text Articles', 'PubMed FAQs', and 'PubMed Tutorials', along with a 'New and Noteworthy' section.

NCBI Resources How To zah

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

PubMed

back pain
low back pain
chronic pain
neuropathic pain
pain management
pain syndrome
neck pain
regional pain
abdominal pain
cancer pain
postoperative pain
regional pain syndrome
complex regional pain
pain treatment
chest pain
pelvic pain
pain physical
patellofemoral pain
shoulder pain
knee pain

Turn off

Using PubMed

[PubMed Quick Start Guide](#)

[Full Text Articles](#)

[PubMed FAQs](#)

[PubMed Tutorials](#)

[New and Noteworthy](#)

پر کاربرد ترین نشانه های فیلد

[Affiliation \[AD\]](#)

[Issue \[IP\]](#)

[Place of Publication \[PL\]](#)

[All Fields \[ALL\]](#)

[Journal Title \[TA\]](#)

[Publication Date \[DP\]](#)

[Author \[AU\]](#)

[Language \[LA\]](#)

[Publication Type \[PT\]](#)

[Corporate Author \[CN\]](#)

[Last Author \[LASTAU\]](#)

[Publisher Identifier \[AID\]](#)

[Entrez Date \[EDAT\]](#)

[MeSH Date \[MHDA\]](#)

[Secondary Source ID \[SI\]](#)

[Filter \[FILTER\]](#)

[MeSH Major Topic \[MAJR\]](#)

[Subset \[SB\]](#)

[First Author Name \[1AU\]](#)

[MeSH Subheadings \[SH\]](#)

[Substance Name \[NM\]](#)

[Full Author Name \[FAU\]](#)

[MeSH Terms \[MH\]](#)

[Text Words \[TW\]](#)

[Grant Number \[GR\]](#)

[NLM Unique ID \[JID\]](#)

[Title \[TI\]](#)

[Investigator \[IR\]](#)

[Other Term \[OT\]](#)

[Title/Abstract \[TIAB\]](#)

[Personal Name as Subject \[PS\]](#)

[Transliterated Title \[TT\]](#)

[Pharmacologic Action MeSH Terms \[PA\]](#)

[Volume \[VI\]](#)

PubMed

pain [ti]



Title Tag



Search

Summary 20 per page Sort by Most Recent

Send to

Search results

Items: 1 to 20 of 56692

<< First < Prev Page 1 of 2835 Next > Last >>

[miR-381 Regulates Neural Stem Cell Proliferation and Differentiation via Regulating Hes1 Expression](#)

1. Shi X, Yan C, Liu B, Yang C, Nie X, Wang X, Zheng J, Wang Y, Zhu Y. PLoS One. 2015 Oct 2;10(10):e0138973. doi: 10.1371/journal.pone.0138973. eCollection 2015. PMID: 26431046 [Similar articles](#)

[Characterization of the Leukocyte Response in Acute Vocal Fold Injury.](#)

2. King SN, Guille J, Thibeault SL. PLoS One. 2015 Oct 2;10(10):e0139260. doi: 10.1371/journal.pone.0139260. eCollection 2015. PMID: 26430970

مقایسه نتایج جستجو

Summary 20 per page Sort by Most Recent

Send

Search results

Items: 1 to 20 of 14093

<< First < Prev Page 1 of 705 Next > Last >>

[Function of the nucleus accumbens in motor control during recovery after spinal cord injury.](#)

1. Sawada M, Kato K, Kunieda T, Mikuni N, Miyamoto S, Onoe H, Isa T, Nishimura Y. Science. 2015 Oct 2;350(6256):98-101. doi: 10.1126/science.aab3825. Epub 2015 Oct 1. PMID: 26430122 [Similar articles](#)

[Long term study of deoxyribozyme administration to XT-1 mRNA promotes corticospinal tract regeneration and improves behavioral outcome after spinal cord injury.](#)

2. Koenig B, Pape D, Chao O, Bauer J, Grimpe B.



Advanced search

امکانات جستجوی پیشرفته

۱. واژه مورد نظر را میتوان به فیلدهای خاصی مانند (ژورنال، کتاب، ناشر و...) محدود کرد.

۲. جهت ترکیب چند واژه از عملگرهای بولین (NOT، OR، AND) میتوان استفاده کرد.

۳. کید واژه را می توان به history اضافه کرد تا در صورت نیاز مجدد از آن در جستجوی ترکیبی استفاده کرد.

۴. از index list می توان استفاده کرد.

Advanced search

PubMed
Advanced

انتخاب فیلد مورد نظر

- Affiliation
- All Fields
- Author
- Author - Corporate
- Author - First
- Author - Full
- Author - Identifier
- Author - Last
- Book
- Date - Completion
- Date - Create
- Date - Entrez
- Date - MeSH
- Date - Modification
- Date - Publication
- EC/RN Number
- Editor
- Filter
- Grant Number
- ISBN

نمایشی الفبایی از موضوع مورد نظر شما + تعداد مقالات در PubMed

osteoporosis (68575)	Previous 200
osteoporosis/anti fracture (1)	Next 200
osteoporosis/anti fracture drugs (1)	
osteoporosis/blood (1262)	
osteoporosis/blood in (2)	
osteoporosis/bone (6)	
osteoporosis/bone mineral density (2)	
osteoporosis/cancer (2)	
osteoporosis/case (27)	
osteoporosis/case reports (27)	<input type="button" value="Refresh index"/>

عملگرهای بولین

برای جستجوی مقالات یک نویسنده

hosseini y[Author]

[Edit](#)

Builder

Author

hosseini y

AND

All Fields

[Show index list](#)

[Show index list](#)

[Search](#) or [Add to history](#)

PubMed hosseini y[Author]

[Create RSS](#) [Create alert](#) [Advanced](#)

[Summary](#) 20 per page [Sort by Relevance](#)

Search results

Items: 8

[Endothelial cell sensing, restructuring, and invasion in collagen hydrogel structures.](#)

1. **Hosseini Y**, Agah M, Verbridge SS.
Integr Biol (Camb). 2015 Sep 17. [Epub ahead of print]
PMID: 26379187
[Similar articles](#)

[Bio-inspired microstructures in collagen type I hydrogel.](#)

2. **Hosseini Y**, Verbridge SS, Agah M.

تاریخچه جستجو، ترکیب جستجو و مشاهده ی جستجوهای قبلی

شماره جستجو

تعداد مدارک بازیابی شده

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

Search	Add to builder	Query	Items found	Time
#5	Add	Search hosseini y[Author] Sort by: Relevance	8	01:17:02
#4	Add	Search Hosseini y[Author] Sort by: Relevance	8	01:15:05
#3	Add	Search Hosseini[Author] Sort by: Relevance	2742	01:13:44
#2	Add	Search ("osteoprosis"[Title]) AND "exc" Sort by: Relevance	0	01:08:39
#1	Add	Search ("osteoprosis"[Title]) AND "exc" Relevance	0	01:08:39

- AND in builder
- OR in builder
- NOT in builder
- Delete from history
- Show search results
- Show search details

Builder

ترکیب نتایج جستجو

All Fields osteoporosis

AND All Fields pain

AND All Fields

Show index list

Show index list

Search or [Add to history](#)

History

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

Search	Add to builder	Query	Items found	Time
#7	Add	Search (osteoporosis) AND pain Sort by: Relevance	4477	07:23:11
#5	Add	Search osteoporosis	68623	04:26:23
#6	Add	Search osteoporosis review Sort by: Relevance	17581	02:41:43
#4	Add	Search "nerve conduction" Sort by: Relevance	10934	02:39:37
#3	Add	Search nerve conduction	42809	01:49:43
#2	Add	Search pain	623780	01:48:36
#1	AND in builder	diagnosis	404267	01:48:17

OR in builder

NOT in builder

Delete from history

نتائج جستجو

PubMed

(osteoporosis) AND pain

Create RSS Create alert Advanced

Summary 20 per page Sort by Relevance

Send to:

Search results

Items: 1 to 20 of 4477

<< First < Prev Page 1 of 224 Next > Last >

- [Quality of life in Japanese women with **postmenopausal osteoporosis** treated with raloxifene and vitamin D: post hoc analysis of a postmarketing study.](#)

Ohta H, Hamaya E, Taketsuna M, Sowa H.

Curr Med Res Opin. 2015 Jan;31(1):85-94. doi: 10.1185/03007995.2014.975339. Epub 2014 Oct 28.

PMID: 25299349

[Similar articles](#)

- [Efficacy of group-adapted physical exercises in reducing back **pain** in women with **postmenopausal osteoporosis**.](#)

Paolucci T, Morone G, Iosa M, Grasso MR, Buzi E, Zangrando F, Paolucci S, Saraceni VM, Fusco A.

Aging Clin Exp Res. 2014 Aug;26(4):395-402. doi: 10.1007/s40520-013-0183-x. Epub 2013 Dec 14.

PMID: 24338597

[Similar articles](#)

- [\[Clinical research on warm acupuncture therapy for **pain** in **postmenopausal osteoporosis**\].](#)

3. Cai GW, Li J, Xu XJ, Xue YZ, Li G, Wu M, Li PF



MeSH

اصطلاحنامه معتبر پزشکی

Medical Subject Headings

تعریف مش

واژه نامه کنترل شده کتابخانه ملی پزشکی آمریکا است که برای نمایه سازی مقالات در مدلاین و پاب مد بکار می رود. دارای مجموعه ای از واژه های رایج و معتبر در علم پزشکی و علوم وابسته است. که علاوه بر نظم الفبایی دارای ساختار درختی است. که با استفاده از آن کاربر از یک اصطلاح غیر علمی و غیر رایج به اصطلاح معتبر و برگزیده هدایت میشود. به عنوان مثال دو واژه cancer و neoplasm هم معنا می باشند ولی به دلیل اینکه مقالات نوشته شده با دو کلیدواژه مختلف در نتایج حاصل از جستجو با هر کدام از کلیدواژه ها بازیابی گردد کلیدواژه neoplasm انتخاب شده و تمامی مقالات دارای کلیدواژه های متفاوت ولی هم معنا با این موضوع به آن ارجاع داده میشوند و هنگام جستجو در کنار هم قرار میگیرند.

چگونه در مش جستجو کنیم؟

The screenshot shows the PubMed website interface. At the top, there is a search bar with a dropdown menu set to 'PubMed' and a search button. Below the search bar, there is a notification: 'Filters activated: Review, published in the last 5 years, Middle Aged: 45-64 years. [Clear all](#)'. A large red callout box is overlaid on the page with the text 'روش اول: انتخاب Mesh database'. Below the callout, there are three columns of navigation links: 'Using PubMed', 'PubMed Tools', and 'More Resources'. The 'MeSH Database' link in the 'More Resources' column is circled in red.

PubMed
PubMed comprises more than 25 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed.

PubMed Commons

روش اول: انتخاب Mesh database

Using PubMed	PubMed Tools	More Resources
PubMed Quick Start Guide	PubMed Mobile	MeSH Database
Full Text Articles	Single Citation Matcher	Journals in NCBI Databases
PubMed FAQs	Batch Citation Matcher	Clinical Trials
PubMed Tutorials	Clinical Queries	E-Utilities (API)
New and Noteworthy	Topic-Specific Queries	LinkOut

روش دوم: انتخاب Mesh از منوی کشویی

The screenshot displays the PubMed website interface. At the top left, the NCBI logo and navigation links for 'Resources' and 'How To' are visible. The main header features the 'PubMed.gov' logo and the text 'US National Library of Medicine National Institutes of Health'. A search bar is located at the top right, with a 'Search' button. A dropdown menu is open, showing a list of resources. The 'MeSH' option is highlighted in blue. The list includes: dbVar, Epigenomics, EST, Gene, Genome, GEO DataSets, GEO Profiles, GSS, GTR, HomoloGene, MedGen, MeSH, NCBI Web Site, NLM Catalog, Nucleotide, OMIM, PMC, PopSet, Probe, and Protein. Below the search bar, there is a large dark box with white text that reads: '...prises more than 25 million citations for biomedical literature from science journals, and online books. Citations may include links to ...ent from PubMed Central and publisher web sites.' On the right side of the page, there is a 'PubMed COMMONS' section with social media icons and a 'Featured comment' dated Nov 5, titled 'Confounding protein & tryptophan? S Young, the effects of dietary intervention on mood.' At the bottom of the page, there are three columns of links: 'Using PubMed' (PubMed Quick Start Guide, Full Text Articles, PubMed FAQs), 'PubMed Tools' (PubMed Mobile, Single Citation Matcher, Batch Citation Matcher), and 'More Resources' (MeSH Database, Journals in NCBI Databases, Clinical Trials).

NCBI Resources How To

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

MeSH

dbVar
Epigenomics
EST
Gene
Genome
GEO DataSets
GEO Profiles
GSS
GTR
HomoloGene
MedGen
MeSH
NCBI Web Site
NLM Catalog
Nucleotide
OMIM
PMC
PopSet
Probe
Protein

Search

PubMed COMMONS

Featured comment - Nov 5
Confounding protein & tryptophan? S Young, the effects of dietary intervention on mood.

Using PubMed

PubMed Quick Start Guide
Full Text Articles
PubMed FAQs

PubMed Tools

PubMed Mobile
Single Citation Matcher
Batch Citation Matcher

More Resources

MeSH Database
Journals in NCBI Databases
Clinical Trials

جستجو در پایگاه مش

NCBI Resources How To zahra_dinpajuh My NCBI Sign Out

MeSH MeSH **nerve conduction** **کلیدواژه را تایپ کنید.** Search

Create alert Limits Advanced Help

Summary Send to: PubMed Search Builder

Select mesh term

Search results Items: 4

Neural Conduction

1. The propagation of the NERVE IMPULSE along the nerve away from the site of an excitation stimulus.
Year introduced: 1968 (1965)

Charcot-Marie-Tooth Disease

Add to search builder AND Search PubMed

YouTube Tutorial

با انتخاب Mesh term وارد صفحه زیر می شوید.

MeSH

MeSH

Limits Advanced

Full

Mesh term

Neural Conduction

Scope note

The propagation of the NERVE IMPULSE along the nerve away from the site of an excitation stimulus.

Year introduced: 1968 (1965)

PubMed search builder options

Select subheading

Subheadings:

analysis

genetics

instrumentation

drug effects

history

physiology

etiology

immunology

radiation effects

Entry Terms:

- Conduction, Neural
- Conductions, Neural
- Neural Conductions
- Nerve Conduction
- Conduction, Nerve
- Conductions, Nerve
- Nerve Conductions

Not select term

See Also:

- [Action Potentials](#)
- [Synaptic Transmission](#)

[All MeSH Categories](#)

[Phenomena and Processes Category](#)

[Physiological Phenomena](#)

[Electrophysiological Phenomena](#)

[Electrophysiological Processes](#)

انتقال mesh term به صفحه جستجو پاب مد

MeSH
[Create alert](#) [Limits](#) [Advanced](#)

Search results

Items: 4 Selected: 1

[Neural Conduction](#)

1. The propagation of the NERVE IMPULSE along the nerve away from the site of an excitation stimulus.
Year introduced: 1968 (1965)

PubMed Search Builder

"Neural Conduction" [Mesh]

AND ▾

Neural Conduction

The propagation of the NERVE IMPULSE along the nerve a
Year introduced: 1968 (1965)

PubMed search builder options

[Subheadings:](#)

analysis

drug effects

etiology

genetics

history

immunology

instrumentation

physiology

radiation effects

زمانیکه در پی شاخه های فرعی موضوعی باشیم مثلا
تاریخچه با فیزیولوژی موضوعی باشیم با انتخاب مش ترم
شاخه های فرعی را نیز انتخاب می کنیم.

("Neural Conduction/history"
[Mesh] OR "Neural
Conduction/physiology" [Mesh])

AND ▾

YouTube Tu

استراتژی جستجو

- مقاله ای مروری

- با عنوان osteoporosis treatment

- در افراد ۴۵-۶۴ ساله

- در ۵ سال اخیر

ابتدا وارد صفحه advanced search میشویم.

PubMed

[Create RSS](#) [Create alert](#) [Advanced](#)

(osteoporosis[Title] AND treatment[Title])

[Edit](#)

Builder

	Title	▼	osteoporosis
AND ▼	Title	▼	treatment
AND ▼	All Fields	▼	

or [Add to history](#)

- Article types
- Clinical Trial
- Review
- Customize ...

Summary 20 per page Sort by Relevance

Send to: Filters: Manage Filters

Search results

Items: 1 to 20 of 3204

Title

Page 1 of 161

1. [Compliance and persistence with treatment with parathyroid hormone for osteoporosis. A Danish national register-based cohort study.](#)

Thorsteinsson AL, Vestergaard P, Eiken P. Authors

Arch Osteoporos. 2015 Dec;10(1):35. doi: 10.1007/s11657-015-0237-0. Epub 2015 Oct 1.

PMID: 26427867

Similar articles

Journal

2. [Evaluation of food products fortified with oyster shell for the prevention and treatment of osteoporosis.](#)

Ahmed SA, Gibriel AA, Abdellatif AK, Ebied HM.

J Food Sci Technol. 2015 Oct;52(10):6816-20. doi: 10.1007/s13197-015-1725-3. Epub 2015 Jan 21.

PMID: 26396435

Similar articles

3. [Persistence with denosumab and persistence with oral bisphosphonates for the treatment of postmenopausal osteoporosis: a retrospective, observational study, and a meta-analysis.](#)

Karlsson L, Lundkvist J, Psachoulia E, Intorcchia M, Ström O.

Osteoporos Int. 2015 Oct;26(10):2401-11. doi: 10.1007/s00198-015-3253-4. Epub 2015 Aug 18.

PMID: 26282229 Free PMC Article

Similar articles

4. [Bone: Sequential osteoporosis treatment-the order of things.](#)

Abrahamsen B.

Nat Rev Endocrinol. 2015 Oct;11(10):570-2. doi: 10.1038/nrendo.2015.134. Epub 2015 Aug 11. No abstract available.

نمودار آماری نتایج بازیابی بر اساس سال نشر و تعداد آنها در هر سال

Results by year

رکوردهای بازیابی شده با کلیدواژه مورد نظر در سایر پایگاهها

Titles with your search terms

Eggshell calcium in the prevention and treatment of os [Int J Clin Pharmacol Res. 2003]

Calcilytics: antagonists of the calcium-sensing receptor for the treatm [Future Med Chem. 2011]

Screening, diagnosis and treatment of osteoporosi [Clin Cases Miner Bone Metab. 2...]

See more...

Find related data

Database: Select

Find items

Clear all

Show additional filters

اعمال فیلتر

محدود کردن براساس
نوع مقاله

محدود کردن براساس
نوع دسترسی

محدود کردن براساس
تاریخ انتشار

محدود کردن براساس
سن

میتوان نتایج بازیابی را با موارد بیشتری محدود کرد.

Article types
Clinical Trial
✓ **Review**
Customize ...

Text availability
Abstract
Free full text
Full text

PubMed Commons
Reader comments
Trending articles

Publication dates
✓ **5 years**
10 years
Custom range...

Species
Humans
Other Animals

Ages
Child: birth-18 years
Infant: birth-23 months
Adult: 19+ years
Adult: 19-44 years
✓ **Middle Aged: 45-64 years**
Aged: 65+ years
Customize ...

[Clear all](#)

[Show additional filters](#)

Additional filters

- Article types
- Text availability
- PubMed Commons
- Publication dates
- Species
- Languages
- Sex
- Subjects
- Journal categories
- Ages
- Search fields

Show

Display setting

Summary ▼ 20 per page ▼ Sort by Relevance ▼

Format

- Summary
- Summary (text)
- Abstract
- Abstract (text)
- MEDLINE
- XML
- PMID List

Items per page

- 5
- 10
- 20
- 50
- 100
- 200

Sort by

- Most Recent
- Relevance
- Publication Date
- First Author
- Last Author
- Journal
- Title

بازیابی نتایج بعد از اعمال فیلتر

PubMed (osteoporosis[Title]) AND treatment[Title]

Search

Create RSS Create alert Advanced

Article types clear Summary 20 per page Sort by Relevance

Clinical Trial

Review

Customize ...

Text availability

Abstract

Free full text

Full text

PubMed Commons

Reader comments

Trending articles

Publication dates clear

5 years

10 years

Custom range...

Species

Humans

Other Animals

Ages clear

Child: birth-18 years

Infant: birth-23 months

Adult: 19+ years

Adult: 19-44 years

Middle Aged: 45-64 years

Aged: 65+ years

Customize ...

Clear all

Show additional filters

Search results

Items: 1 to 20 of 33

<< First < Prev Page 1

Filters activated: Review, published in the last 5 years, Middle Aged: 45-64 years. [Clear all](#) to show 3204 items.

[Prevention and treatment of postmenopausal osteoporosis.](#)

1. Tella SH, Gallagher JC.
J Steroid Biochem Mol Biol. 2014 Jul;142:155-70. doi: 10.1016/j.jsbmb.2013.09.008. Epub 2013 Oct 29. Review.
PMID: 24176761 [Free PMC Article](#)
[Similar articles](#)

[\[Osteoporosis: treatment and pharmaceutical care\].](#)

2. Duquet N.
J Pharm Belg. 2014 Jun;(2):14-24. Review. French.
PMID: 25055452
[Similar articles](#)

[Current challenges in the treatment of osteoporosis: an opportunity for bazedoxifene.](#)

3. Reginster JY, Ferrari S, Hadji P.
Curr Med Res Opin. 2014 Jun;30(6):1165-76. doi: 10.1185/03007995.2014.890927. Epub 2014 Feb 24. Review.
PMID: 24495098
[Similar articles](#)

[\[Criteria for initiation of pharmacological treatment by Japanese 2011 guidelines for prevention and treatment of osteoporosis\].](#)

4. Hagino H.
Clin Calcium. 2014 Mar;24(3):339-47. doi: CliCa1403339347. Review. Japanese.
PMID: 24576930
[Similar articles](#)

جهت دریافت فول تست مقاله به روی
عنوان مقاله کلیک کنید

Titles with your search terms

Eggshell calcium in the prevention and

[treatment of os](#) [Int J Clin Pharmacol Res. 200

Calcilytics: antagonists of the calcium-sensing

receptor for the [treatm](#) [Future Med Chem. 20

Screening, diagnosis and [treatment of](#)

[osteoporosi](#) [Clin Cases Miner Bone Metab. 2

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نمایش جزئیات استراتژی
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Prevention and treatment of postmenopausal osteoporosis.

Tella SH¹, Gallagher JC².

Author information

Abstract

In the beginning, that is from the 1960's, when a link between menopause and **osteoporosis** was first identified; estrogen **treatment** was standard for preventing bone loss, however there was no fracture data, even though it was thought to be effective. This continued until the Women's Health Initiative (WHI) study in 2001 that published data on 6 years of **treatment** with hormone therapy that showed an increase in heart attacks and breast cancer. Even though the risks were small, 1 per 1500 users annually, patients were worried and there was a large drop off in estrogen use. In later analyses the WHI study showed that estrogen reduced fractures and actually prevented heart attacks in the 50-60 year age group. Estrogen alone appeared to be safer to use than estrogen+the progestin medroxyprogesterone acetate and actually reduced breast cancer. At the same time other drugs were being developed for bone that belong to the bisphosphonate group and the first generation of compounds showed moderate potency on bone resorption. The second and third generation compounds were much more potent and in a series of large trials were shown to reduce fractures. For the last 15 years the **treatment of osteoporosis** belonged to the bisphosphonate compounds, most of which reduce fracture rates by 50 percent. With the exception of gastrointestinal irritation the drugs are well tolerated and highly effective. The sophistication of the delivery systems now allow **treatment** that can be given daily, weekly, monthly and annually either orally or intravenously. Bone remodeling is a dynamic process that repairs microfractures and replaces old bone with new bone. In the last 10 years there has been a remarkable understanding of bone biology so that new therapies can be specifically designed on a biological basis. The realization that RANKL was the final cytokine involved in the resorption process and that marrow cells produced a natural antagonist called Osteoprotegerin (OPG) quickly led to two lines of therapy. First OPG was used as a therapy to block RANKL was initially successful but later antibodies against OPG developed and this line of **treatment** had to be discontinued. The next step was to develop a monoclonal antibody against RANKL and this proved to be highly effective in blocking bone resorption. It led to development of a drug Denosumab that successfully reduces fractures and is now one of the therapeutic options for **osteoporosis treatment**. On the anabolic side bone biology research showed that osteocytes produces sclerostin an inhibitor of the anabolic WNT signaling pathway. Recent development of a monoclonal antibody against sclerostin has shown remarkable anabolic activity in bone showing large increases in bone density and fracture trials are now underway. The newer treatments for **osteoporosis** are likely to be based on our understanding of bone biology and the design of new highly specific compounds with fewer side effects. This **review** summarizes the diagnosis of postmenopausal **osteoporosis** and various available non-pharmacological and pharmacological therapies available for its management. This article is part of a Special Issue entitled 'Menopause'.

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KEYWORDS: BMD; Diagnosis; **Osteoporosis**; Risk factors; **Treatment**

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Pogorelić Z, Mrklić I, Jurić I.

J Pediatr Urol. 2013 Dec;9(6 Pt B):1161-5. doi: 10.1016/j.jpurol.2013.04.018. Epub 2013 Ju

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1. Greutmann M, Tobler D, Kovacs AH, Greutmann-Yantiri M, Haile SR, Held L, Ivanov J, Williams WG, Oechslin EN, Silversides CK, Colman JM.

Congenit Heart Dis. 2015 Mar-Apr;10(2):117-27. doi: 10.1111/chd.12201. Epub 2014 Jul 7.

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Heery E, Sheehan AM, While AE, Coyne I.

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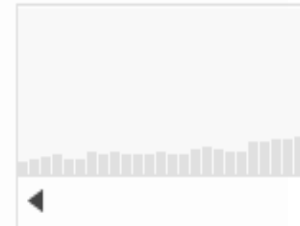
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