



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

۱۳۹۳/۱۰/۹

زهرا فتحی فر
کتابخانه دانشکده بهداشت

جستجوی با رویکرد پزشکی مبتنی بر شواهد (مقدماتی)

سرفصل ها:

- یادآوری سوال بالینی قابل پاسخ و انواع آن

- یادآوری هرم شواهد و انواع مطالعات

- مقدمات

- کار با اصطلاحنامه MeSH

- جستجو در PubMed Query

مراحل انجام عملکرد مبتنی بر شواهد

1. طرح سوال بالینی قابل پاسخ

2. جستجوی شواهد معتبر

3. ارزیابی نقادانه شواهد

4. کاربرد بالینی شواهد

5. ارزشیابی عملکرد

طرح سوال بالینی قابل پاسخ

جستجوی شواهد معتبر

ارزیابی نقادانه شواهد

کاربرد بالینی شواهد

ارزشیابی عملکرد

سوال بالینی PICO

- ▶ What types of **P**atients / Populations / Problems?
- ▶ What types of **I**nterventions / Exposures?
- ▶ What types of **C**omparisons / Control?
- ▶ What types of **O**utcomes?

انواع سوالات بالینی

سوال	نوع سوال	مثال
درمانی	Therapy/Treatment	آیا پوشیدن جورابه‌های کشی در مسافرت‌های طولانی مدت خطر ابتلا به DVT را کاهش می‌دهد؟
اتیولوژی (فاکتور خطر)	Etiology	آیا چاقی خطر ابتلا به بیماری‌های قلبی را افزایش می‌دهد؟
تشخیصی	Diagnosis	آیا تست نجوا در تشخیص کم‌شنوایی سالمندان در مقایسه با تست دیاپازون بهتر عمل می‌کند؟
پیش‌آگهی	Prognosis	در کودکانی که یک بار دچار تشنج همراه با تب شده‌اند احتمال بروز صرع در بزرگسالی چقدر است؟
ضرر و زیان	Harm	میزان ضرر داروهای استفاده شده در شیمی‌درمانی برای بیماران سرطانی چقدر است؟

سناریو ۱

▶ آیا در بیماران مبتلا به پنومونی نیازمند بستری، تجویز آنتی بیوتیک وریدی در مقایسه با آنتی بیوتیک خوراکی، بهبود بالینی را افزایش و عود عفونت را کاهش می دهد؟

▶ اجزای PICO را مشخص کنید.

- ▶ P ?
- ▶ I ?
- ▶ C ?
- ▶ O ?

سوال: آیا تاثیر آنتی بیوتیک وریدی در مقایسه با آنتی بیوتیک خوراکی، در بهبود بالینی و کاهش عود عفونت در بیماران مبتلا به پنومونی بیشتر است؟

Patients P	Interventions I	Comparisons C	Outcomes O
بیمار مبتلا به پنومونی - نیازمند بستری	آنتی بیوتیک وریدی	آنتی بیوتیک خوراکی	بهبود بالینی و کاهش عود عفونت
درمانی			نوع سوال بالینی
مرورهای نظام مند، متاآنالیزها، کارآزمایی های بالینی تصادفی شده و مطالعات کوهورت			اولویت مطالعات

Scenario 2

- ▶ A 64-year-old obese male who has tried many ways to lose weight presents with a newspaper article about 'fat-blazer' (chitosan). He asks for your advice.

- ▶ PICO???

- ▶ P ?

- ▶ I ?

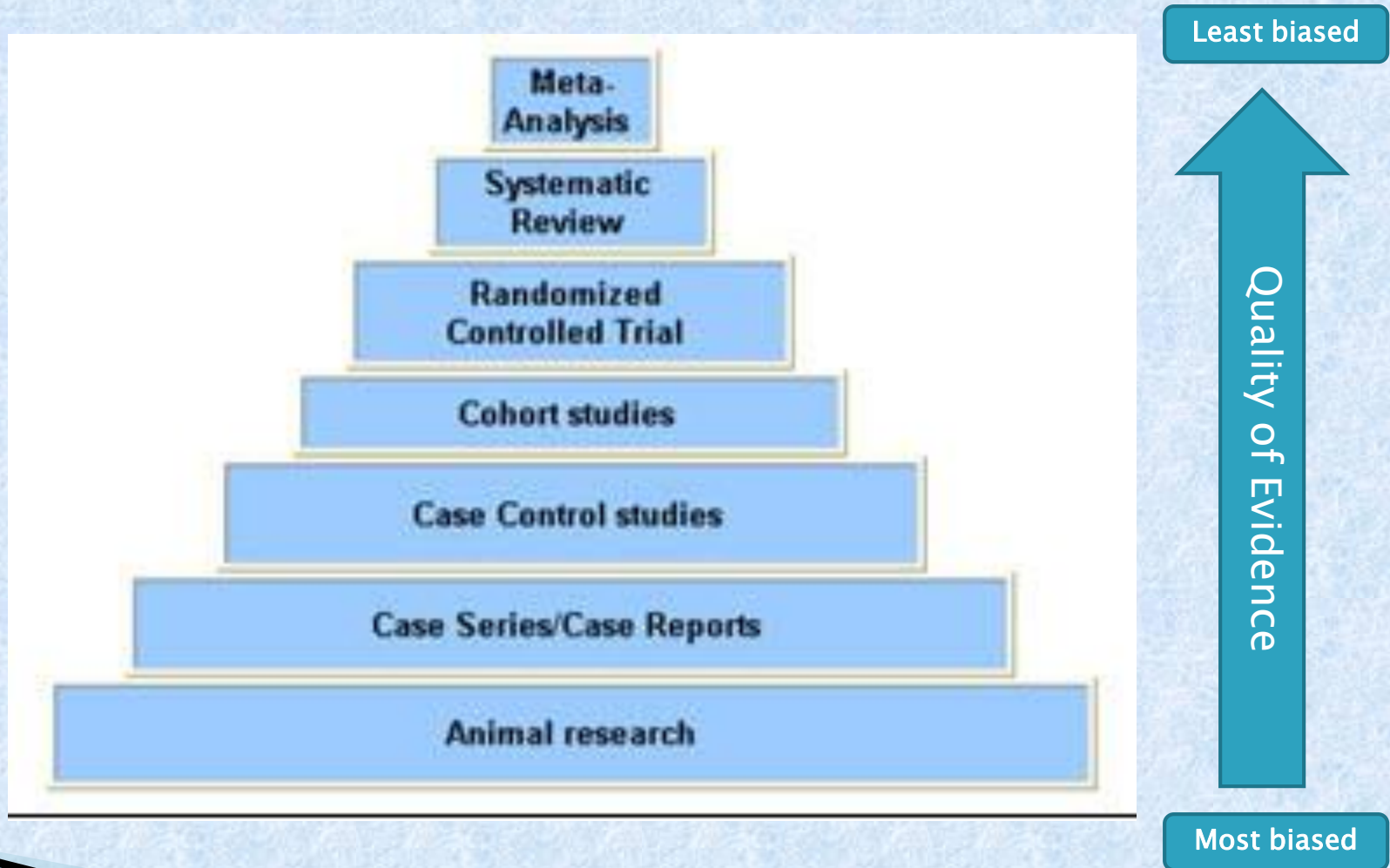
- ▶ C ?

- ▶ O ?

In obese patients, does 'fat-blazer' (chitosan), compared with a placebo, decrease weight?

Patient P	Intervention I	Comparison C	Outcome O
old obese male	fat-blazer (chitosan)	No comparison or placebo	lose weight
درمانی			نوع سوال بالینی
مرورهای نظام مند، متاآنالیزها، کارآزمایی های بالینی تصادفی شده و مطالعات کوهورت			اولویت مطالعات

سطح بندی شواهد



مطالعات توصیه شده برای انواع سوالات بالینی

نوع سوال بالینی	مطالعات پیشنهادی
درمانی	Randomized controlled trial (RCT)>cohort>case control
اتیولوژی و فاکتور خطر و Harm	RCT > cohort > case control > case series
تشخیصی	Cross-sectional study with random or consecutive sample
پیش آگهی	Cohort /survival study > Cross-sectional
هزینه	Cost analysis

گردآوری اطلاعات

❖ روش هل دادن یا **Push**:

بدون برنامه ریزی قبلی از میان حجم وسیع اطلاعاتی که به دستمان می رسد.

❖ روش استخراج یا **Pull**:

با برنامه ریزی هدفمند و جستجوی اطلاعاتی که متعاقب یک سوال بالینی انجام می گیرد.

این روش سعی در یافتن پاسخ سوالات بالینی از منابع مربوطه در کمتر از **۲ دقیقه** دارد.

استراتژی جستجو

➤ مشخص کردن اجزای سوال بالینی

➤ درجه بندی اهمیت اجزاء

➤ نوشتن مترادفات و مرتبط ها

➤ استفاده از عملگرهای بولی

➤ استفاده از محدودیت ها

➤ ...

درجه بندی اهمیت اجزاء

به اجزای پیکو بنا به اهمیتی که دارند از ۱ تا ۴ نمره می دهیم.
اجزا به ترتیب اهمیت عبارتند از:
مداخله - مساله یا بیمار - پیامد و مقایسه

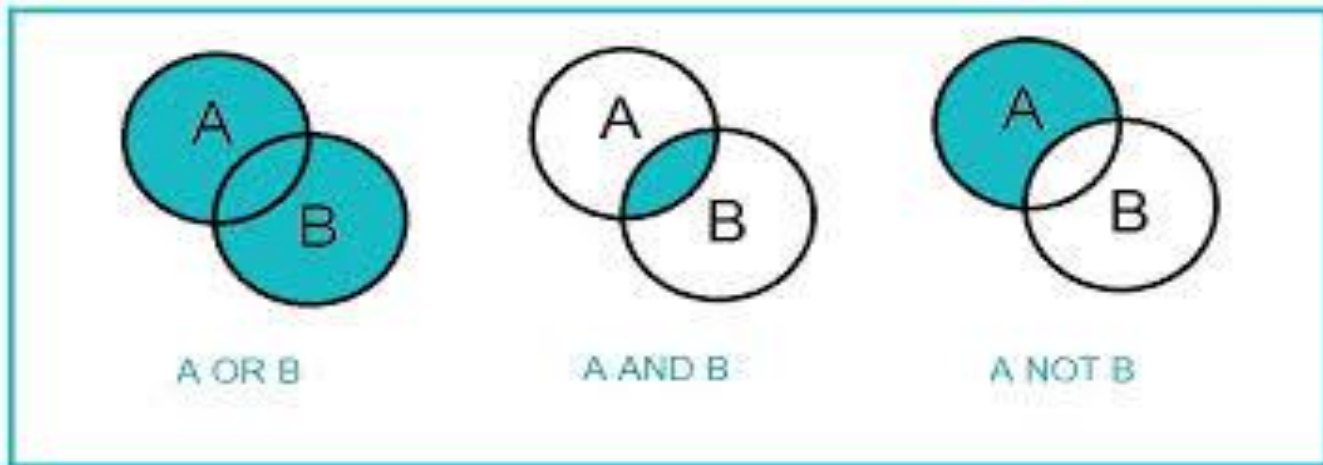
Patient/Problem	Intervention	Comparison	Outcome
(2)	(1)	(4)	(3)

نوشتن مترادفات و مرتبط ها

- ▶ در تدوین راهبرد جستجو از مهمترین نکات، نوشتن مترادف ها و یا مرتبط های هر یک از اجزای سوال بالینی است.
- ▶ برای این منظور می توان از اصطلاح نامه ها به ویژه اصطلاح نامه MeSH استفاده نمود.

استفاده از عملگرهای بولی

با استفاده از عملگرهای بولی می توان جستجو را وسیعتر، محدودتر یا اختصاصی نمود.



استفاده از محدودیت ها

- ▶ با استفاده از محدودیت هایی چون زبان، زمان، جنس، انواع خاصی از مدارک، جستجو در فیلدی خاص همچون عنوان، نویسنده و... می توان نتایج جستجو را اختصاصی تر و محدودتر نمود.

دیگر تاکتیک ها

▶ کوتاه سازی یا Truncation با استفاده از *

Screen*: Screen, Screened, Screening

▶ نزدیک یابی با استفاده از Near یا Adj

Cancer Adj3 treatment

Cancer Near/3 treatment

▶ جستجوی عبارتی با قراردادن عبارت داخل “ ”

“Electrical Burn”

▶ جستجوی املای متفاوت با استفاده از \$ یا ؟ یا *

P*ediatics: pediatrics, paediatrics

آغاز مراحل جستجو

Scenario 2

- ▶ A 64-year-old obese male who has tried many ways to lose weight presents with a newspaper article about 'fat-blazer' (chitosan). He asks for your advice.

- ▶ PICO???

- ▶ P ?

- ▶ I ?

- ▶ C ?

- ▶ O ?

In obese patients, does 'fat-blazer' (chitosan), compared with a placebo, decrease weight?

- ▶ **P : Patient** = old obese male
- ▶ **I : Intervention** = fat-blazer (chitosan)
- ▶ **C : Comparison** = No comparison or placebo
- ▶ **O : Outcome** = lose weight

▶ نوع سوال بالینی: درمانی

▶ مطالعات اولویت دار: مرورهای نظام مند، کارآزمایی های بالینی تصادفی شده،

مطالعات کوهورت

In obese patients, does 'fat-blazer' (chitosan), compared with a placebo, decrease weight?

"PICO"	PICO terms	Synonems/truncation/number allocated to each term
P: Patient/problem	obese people	obes* OR overweigh* (2)
I: Intervention	Fat-blazer (chitosan)	Chitosan OR fat-blazer (1)
C: Comparison	No comparison OR placebo	placebo (4)
O: Outcome	decreased weight	decrease weight OR lost weight (3)

Finding Evidence-Based citations in **Pubmed**



PubMed

PubMed comprises more than 24 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

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[E-Utilities \(API\)](#)

[LinkOut](#)

Pubmed Clinical Queries

- ▶ برای یافتن پاسخ سوالهای بالینی طراحی شده است.
- ▶ انواع منابع با سطح شواهد بالا چون راهنماهای عملکرد بالینی، مرورهای سیستماتیک، متاآنالیزها و کارآزمایی های بالینی را بازیابی می کند.
- ▶ در ۳ ستون، پاسخ به موقعیت و سوال بالینی، مرورهای سیستماتیک و ژنتیک پزشکی طراحی شده است.

http://www.ncbi.nlm.nih.gov/mesh/?term=chitosan

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MeSH MeSH chitosan Search

Save search Limits Advanced Help

Display Settings: Summary, 20 per page Send to:

Results: 1 to 20 of 82 Selected: 1 << First < Prev Page 1 of 5 Next > Last >>

Chitosan ←

1. Deacetylated CHITIN, a linear polysaccharide of deacetylated beta-1,4-D-glucosamine. It is used in HYDROGEL and to treat WOUNDS.
Year introduced: 2005(2004)

[N-\(2-hydroxypropyl\)-3-trimethylammonium chitosan \[Supplementary Concept\]](#)

2. a heparin reversal agent; structure in first source; do not confuse with HTCC cpd
Date introduced: June 20, 2010

[PEG-graft-trimethyl-chitosan copolymer \[Supplementary Concept\]](#)

3. Date introduced: March 6, 2006

[N-trimethyl chitosan chloride \[Supplementary Concept\]](#)

4. drug carrier with highly quaternized in neutral environments
Date introduced: March 31, 1999

[chitosan-N\(4\)-\(4-carboxybutyryl\)-1-arabinofuranosylcytosine conjugate \[Supplementary Concept\]](#)

5. Date introduced: May 10, 1994

[O,N-carboxymethylchitosan \[Supplementary Concept\]](#)

6. structure given in first source
Date introduced: November 9, 1992

[diethylethylamine-chitosan \[Supplementary Concept\]](#)

7. structure in first source
Date introduced: October 1, 2013

[poly\(ethylene glycol\)-poly\(alanine-co-phenyl alanine\) grafted chitosan \[Supplementary Concept\]](#)

8. structure in first source
Date introduced: February 10, 2013

[methoxy poly\(ethylene glycol\)-grafted chitosan \[Supplementary Concept\]](#)

9. structure in first source
Date introduced: May 11, 2009

[poly\(chitosan-g-lactic acid\) \[Supplementary Concept\]](#)

10. Date introduced: September 11, 2008

[carboxymethyl-chitosan \[Supplementary Concept\]](#)

Display Settings: Full

Send to: Full

Chitosan
acetylated CHITIN, a linear polysaccharide of deacetylated beta-1,4-D-glucosamine. It is used in HYDROGEL and to treat WOUNDS.

Year introduced: 2005(2004)

PubMed search builder options

Subheadings:

- administration and dosage
- diagnostic use
- pharmacokinetics
- adverse effects
- economics
- pharmacology
- analogs and derivatives
- etiology
- physiology
- analysis
- history
- radiation effects
- antagonists and inhibitors
- immunology
- standards
- blood
- isolation and purification
- therapeutic use
- chemical synthesis
- metabolism
- toxicity
- chemistry
- organization and administration
- urine
- classification
- administration



PubMed Search Builder

"Chitosan" [Mesh]

Add to search builder AND

Search PubMed

YouTube Tutorial

Related information

- PubMed
- PubMed - Major Topic
- Clinical Queries
- NLM MeSH Browser
- MedGen
- PubChem Compound
- PubChem Substance

Recent Activity

Turn Off Clear

- Chitosan MeSH
- chitosan (82) MeSH
- fat-blazer (0) MeSH
- PubMed Help - PubMed Help

Restrict to MeSH Major Topic.

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

MeSH Number(s): D05.750.078.139.500, D09.698.211.500

MeSH Unique ID: D048271

Registry Number: 9012-76-4

MeSH Terms:

- Poliglusam

Previous Indexing:

- [Chitin/analogs and derivatives \(1975-2004\)](#)

Pharmacologic Action:

- [Anticholesteremic Agents](#)

PubMed Clinical Queries

Results of searches on this page are limited to comprehensive searches, use PubMed directly.

Enter Key word

"Chitosan"[Mesh]

Clinical Study Categories

Category: Therapy

Scope: Etiology, Diagnosis, **Therapy**, Prognosis, Clinical prediction guides

Results: 5

21. pH-sensitive chitosan-based nanoparticles for protein drug delivery: oral approaches: Original research article: a novel pH-sensitive hydrogel composed of carboxymethyl chitosan and alginate cross-linked by genipin for protein drug delivery, 2004.
Liao ZX, Chuang EY, Hsiao CW, Sung HW. J Control Release. 2014 Sep 28; 190:68-70.

12. Biodegradable polymer nanoparticles as protein delivery systems: Original research articles: Design of biodegradable particles for protein delivery (2002), Chitosan nanoparticles as delivery systems for doxorubicin (2001); design of microencapsulated chitosan microspheres for colonic drug delivery (1998).
Csaba N, Alonso MJ. J Control Release. 2014 Sep 28; 190:53-4.

[Effects of cell-mediated immunity induced by intramuscular chitosan-pJME/ GM-CSF nano-DNA vaccine in BALB/c mice].
Zhai YZ, Zhou Y, Ma L, Feng GH.

Systematic Reviews

Results: 5 of 12

Chitosan in nasal delivery systems for therapeutic drugs.
Casettari L, Illum L. J Control Release. 2014 Sep 28; 190:189-200. Epub 2014 May 10.

Polymers in cell encapsulation from an enveloped cell perspective.
de Vos P, Lazarjani HA, Poncelet D, Faas MM. Adv Drug Deliv Rev. 2014 Apr; 67-68:15-34. Epub 2013 Nov 22.

Chitosan-based delivery systems for mucosal vaccines.
Jabbal-Gill I, Watts P, Smith A. Expert Opin Drug Deliv. 2012 Sep; 9(9):1051-67. Epub 2012 Jun 19.

Local fibrin glue and chitosan-based dressings in haemophilia surgery.
Rodriguez-Merchan EC. Blood Coagul Fibrinolysis. 2012 Sep; 23(6):473-6.

Chitosan in nanostructured thin films.
Pavinatto FL, Casali L, Oliveira ON.

Medical Genetics

Topic: All

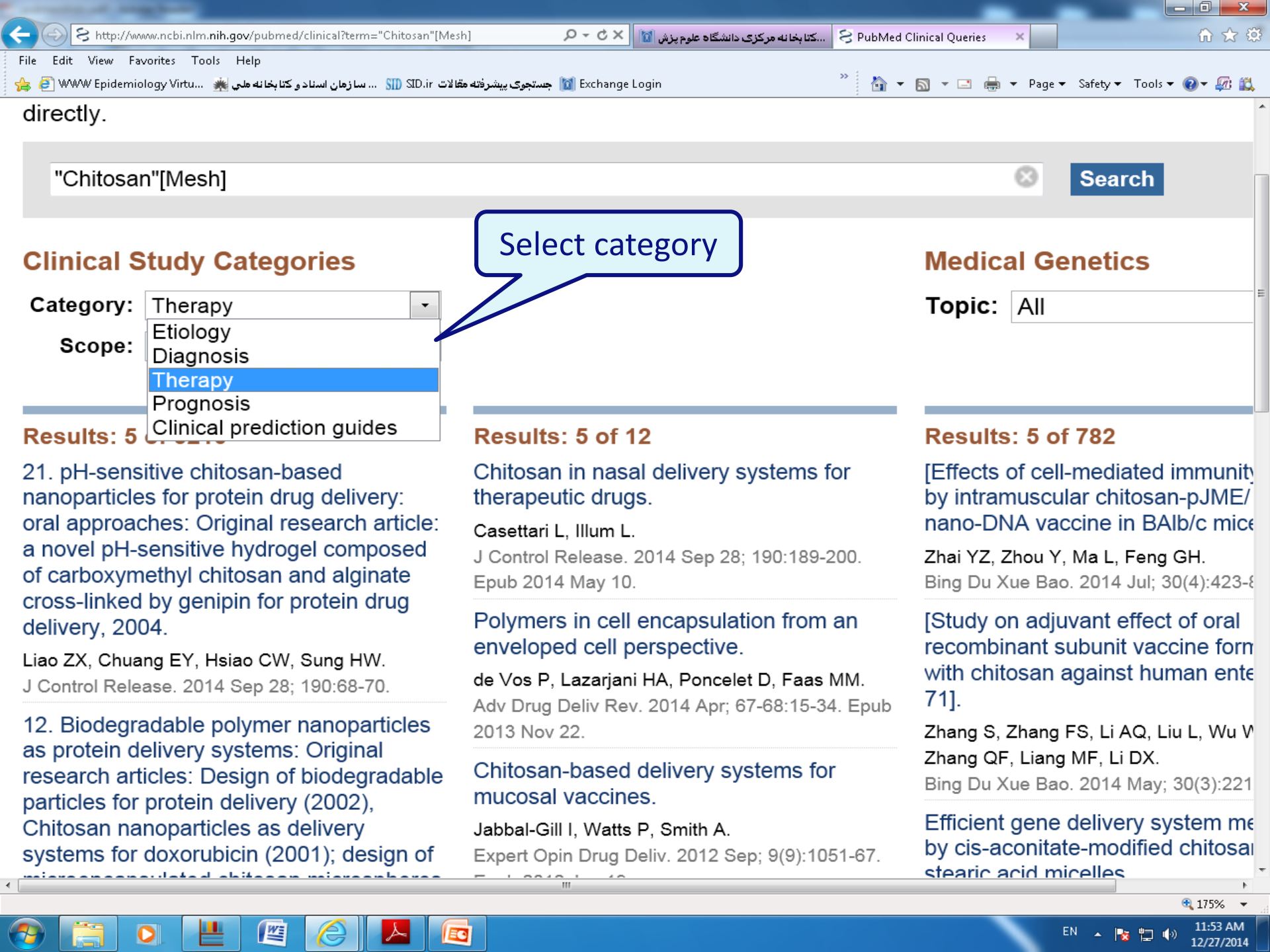
Results: 5 of 782

[Effects of cell-mediated immunity induced by intramuscular chitosan-pJME/ GM-CSF nano-DNA vaccine in BALB/c mice].
Zhai YZ, Zhou Y, Ma L, Feng GH. Bing Du Xue Bao. 2014 Jul; 30(4):423-8.

[Study on adjuvant effect of oral recombinant subunit vaccine formulated with chitosan against human enterovirus 71].
Zhang S, Zhang FS, Li AQ, Liu L, Wu W, Li C, Zhang QF, Liang MF, Li DX. Bing Du Xue Bao. 2014 May; 30(3):221-5.

Efficient gene delivery system mediated by cis-aconitate-modified chitosan-g-stearic acid micelles.
Yao JJ, Du YZ, Yuan H, You J, Hu FQ. Int J Nanomedicine. 2014; 9:2993-3003. Epub 2014 Jun 18.

TAT-LHRH conjugated low molecular weight chitosan as a gene carrier specific for hepatocellular carcinoma cells.
Liu L, Dong X, Zhu D, Song L, Zhang H, Leng XG. Int J Nanomedicine. 2014; 9:2879-89. Epub 2014 Jun 10.



directly.

"Chitosan"[Mesh]

Search

Clinical Study Categories

Category:

Scope:

- Therapy
- Etiology
- Diagnosis
- Therapy
- Prognosis
- Clinical prediction guides

Select category

Medical Genetics

Topic:

Results: 5

21. pH-sensitive chitosan-based nanoparticles for protein drug delivery: oral approaches: Original research article: a novel pH-sensitive hydrogel composed of carboxymethyl chitosan and alginate cross-linked by genipin for protein drug delivery, 2004.

Liao ZX, Chuang EY, Hsiao CW, Sung HW.
J Control Release. 2014 Sep 28; 190:68-70.

12. Biodegradable polymer nanoparticles as protein delivery systems: Original research articles: Design of biodegradable particles for protein delivery (2002), Chitosan nanoparticles as delivery systems for doxorubicin (2001); design of microencapsulated chitosan microspheres

Results: 5 of 12

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Jabbal-Gill I, Watts P, Smith A.
Expert Opin Drug Deliv. 2012 Sep; 9(9):1051-67.

Results: 5 of 782

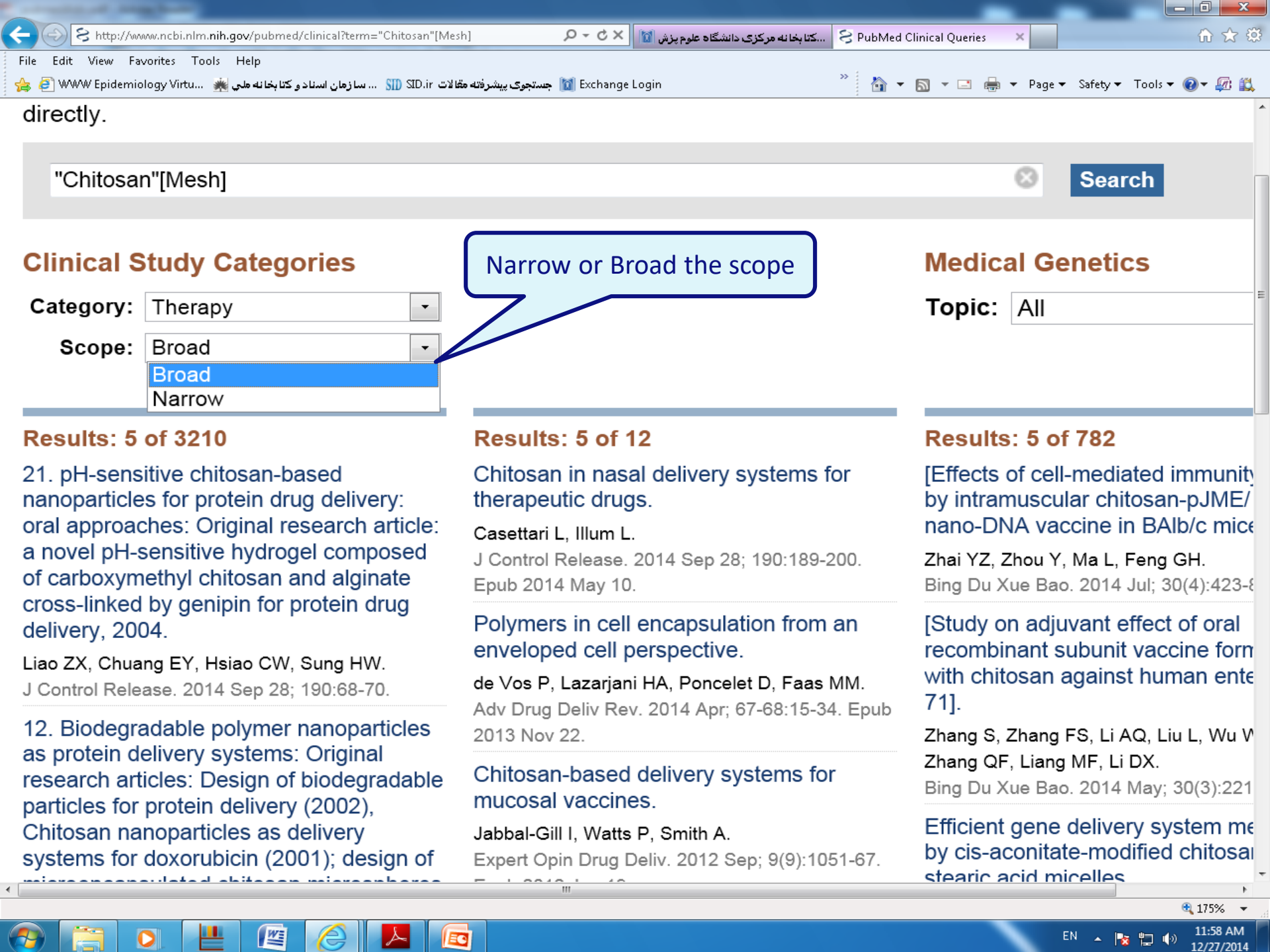
[Effects of cell-mediated immunity by intramuscular chitosan-pJME/nano-DNA vaccine in BALB/c mice

Zhai YZ, Zhou Y, Ma L, Feng GH.
Bing Du Xue Bao. 2014 Jul; 30(4):423-8

[Study on adjuvant effect of oral recombinant subunit vaccine form with chitosan against human ente 71].

Zhang S, Zhang FS, Li AQ, Liu L, Wu W, Zhang QF, Liang MF, Li DX.
Bing Du Xue Bao. 2014 May; 30(3):221

Efficient gene delivery system mediated by cis-aconitate-modified chitosan-stearic acid micelles



directly.

"Chitosan"[Mesh]

Search

Clinical Study Categories

Category:

Scope:

Narrow or Broad the scope

Medical Genetics

Topic:

Results: 5 of 3210

21. pH-sensitive chitosan-based nanoparticles for protein drug delivery: oral approaches: Original research article: a novel pH-sensitive hydrogel composed of carboxymethyl chitosan and alginate cross-linked by genipin for protein drug delivery, 2004.

Liao ZX, Chuang EY, Hsiao CW, Sung HW.
 J Control Release. 2014 Sep 28; 190:68-70.

12. Biodegradable polymer nanoparticles as protein delivery systems: Original research articles: Design of biodegradable particles for protein delivery (2002), Chitosan nanoparticles as delivery systems for doxorubicin (2001); design of microencapsulated chitosan microbeads

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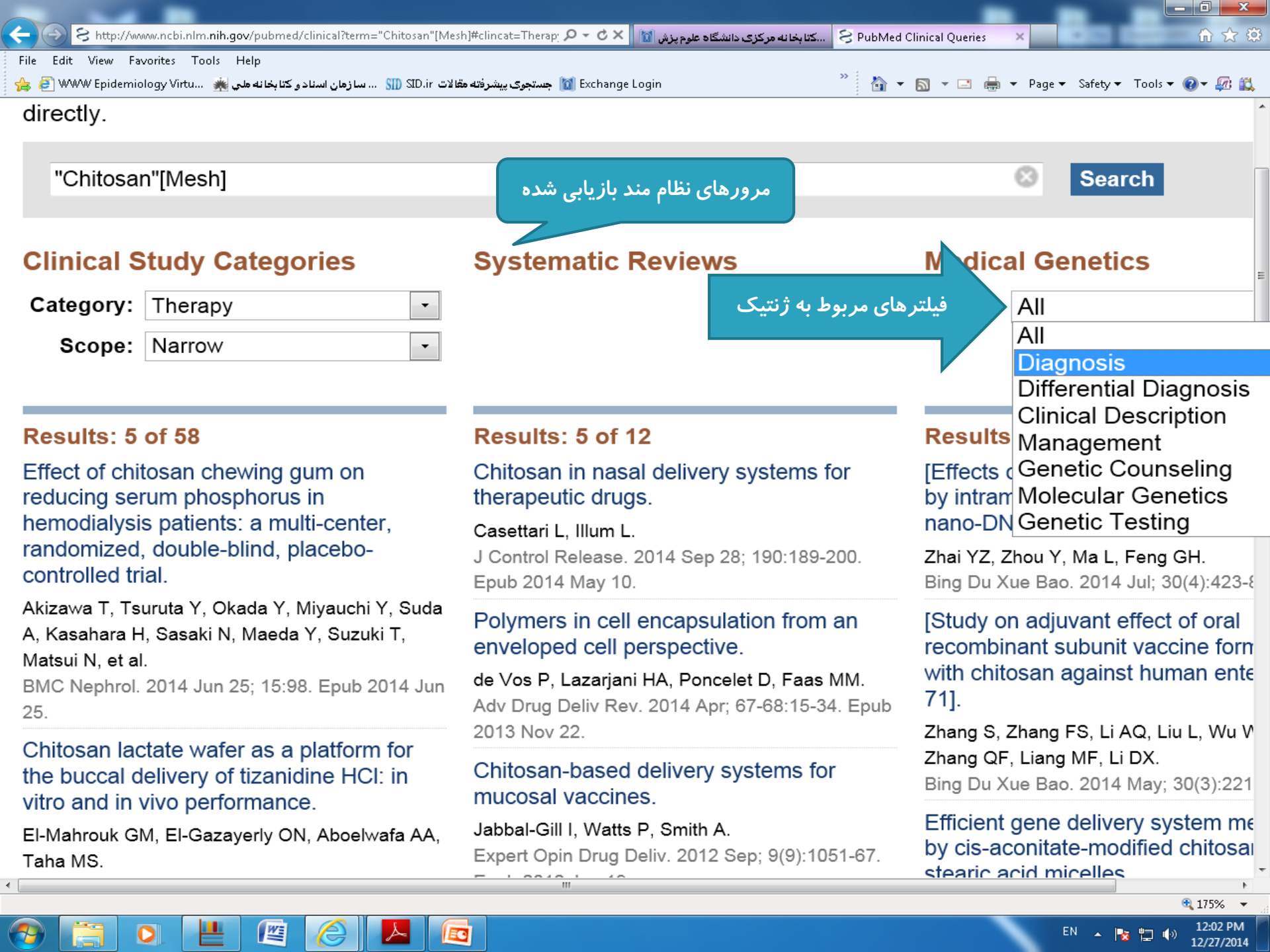
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directly.

"Chitosan"[Mesh]

مرورهای نظام مند بازیابی شده

Search

Clinical Study Categories

Category:

Scope:

Systematic Reviews

فیلترهای مربوط به ژنتیک

Medical Genetics

Results: 5 of 58

Effect of chitosan chewing gum on reducing serum phosphorus in hemodialysis patients: a multi-center, randomized, double-blind, placebo-controlled trial.

Ikizawa T, Tsuruta Y, Okada Y, Miyauchi Y, Suda A, Kasahara H, Sasaki N, Maeda Y, Suzuki T, Matsui N, et al.

BMC Nephrol. 2014 Jun 25; 15:98. Epub 2014 Jun 25.

Chitosan lactate wafer as a platform for the buccal delivery of tizanidine HCl: in vitro and in vivo performance.

El-Mahrouk GM, El-Gazayerly ON, Aboelwafa AA, Taha MS.

Results: 5 of 12

Chitosan in nasal delivery systems for therapeutic drugs.

Casettari L, Illum L.

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Jabbal-Gill I, Watts P, Smith A.

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Results

[Effects of chitosan nano-DN...

Zhai YZ, Zhou Y, Ma L, Feng GH.

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Efficient gene delivery system mediated by cis-aconitate-modified chitosan-stearic acid micelles.

- All
- All
- Diagnosis
- Differential Diagnosis
- Clinical Description
- Management
- Genetic Counseling
- Molecular Genetics
- Genetic Testing

MeSH MeSH overweight Search

Display Settings: Full

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Overweight

A status with BODY WEIGHT that is above certain standard of acceptable or desirable weight. In the scale of BODY MASS INDEX, overweight is defined as having a BMI of 25.0-29.9 kg/m2. Overweight may or may not be due to increases in body fat (ADIPOSE TISSUE), hence overweight does not equal "over fat".

Year introduced: 2006

PubMed search builder options

Subheadings:

- analysis, anatomy and histology, blood, cerebrospinal fluid, chemically induced, classification, complications, congenital, cytology, diagnosis, diet therapy, drug effects, drug therapy, economics, embryology, enzymology, epidemiology, ethnology, etiology, genetics, history, immunology, legislation and jurisprudence, metabolism, microbiology, mortality, nursing, organization and administration, parasitology, pathology, physiology, physiopathology, prevention and control, psychology, radiography, radionuclide imaging, radiotherapy, rehabilitation, statistics and numerical data, surgery, therapy, ultrasonography, urine, veterinary, virology

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

Tree Number(s): C23.888.144.699, E01.370.600.115.100.160.120.699, G07.100.100.160.120.699

MeSH Unique ID: D050177

Previous Indexing:

- Obesity (1965-2005)

All MeSH Categories

Diseases Category

Pathological Conditions, Signs and Symptoms

PubMed Search Builder

("Chitosan" [Mesh]) AND ("Obesity" [Mesh]) OR "Overweight" [Mesh]

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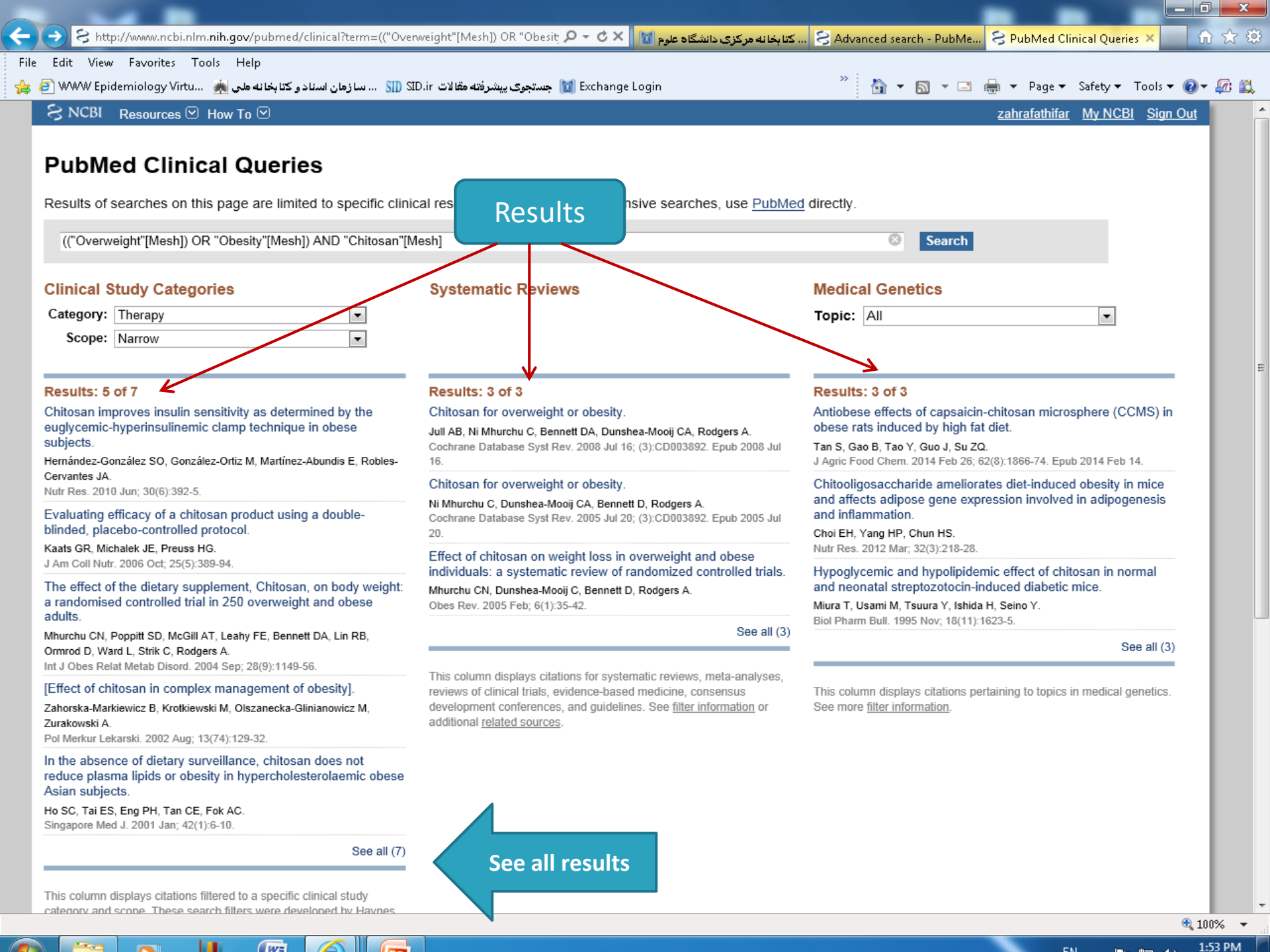
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- overweight (1) MeSH
Overweight MeSH
obes* (147) MeSH
(Therapy/Narrow[filter]) AND ("Chitosan"[Mesh]) (58) PubMed
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"overweight" [MeSH Terms] OR overweight [Text Word]



Results

Search query: (('Overweight'[Mesh]) OR 'Obesity'[Mesh]) AND 'Chitosan'[Mesh]

Search

Clinical Study Categories

Category:
Scope:

Systematic Reviews

Medical Genetics

Topic:

Results: 5 of 7

Chitosan improves insulin sensitivity as determined by the euglycemic-hyperinsulinemic clamp technique in obese subjects.

Hernández-González SO, González-Ortiz M, Martínez-Abundis E, Robles-Cervantes JA.
Nutr Res. 2010 Jun; 30(6):392-5.

Evaluating efficacy of a chitosan product using a double-blinded, placebo-controlled protocol.

Kaats GR, Michalek JE, Preuss HG.
J Am Coll Nutr. 2006 Oct; 25(5):389-94.

The effect of the dietary supplement, Chitosan, on body weight: a randomised controlled trial in 250 overweight and obese adults.

Mhurchu CN, Poppitt SD, McGill AT, Leahy FE, Bennett DA, Lin RB, Ormrod D, Ward L, Strik C, Rodgers A.
Int J Obes Relat Metab Disord. 2004 Sep; 28(9):1149-56.

[Effect of chitosan in complex management of obesity].

Zahorska-Markiewicz B, Krotkiewski M, Olszanecka-Glinianowicz M, Zurakowski A.
Pol Merkur Lekarski. 2002 Aug; 13(74):129-32.

In the absence of dietary surveillance, chitosan does not reduce plasma lipids or obesity in hypercholesterolaemic obese Asian subjects.

Ho SC, Tai ES, Eng PH, Tan CE, Fok AC.
Singapore Med J. 2001 Jan; 42(1):6-10.

See all (7)

Results: 3 of 3

Chitosan for overweight or obesity.

Jull AB, Ni Mhurchu C, Bennett DA, Dunshea-Mooij CA, Rodgers A.
Cochrane Database Syst Rev. 2008 Jul 16; (3):CD003892. Epub 2008 Jul 16.

Chitosan for overweight or obesity.

Ni Mhurchu C, Dunshea-Mooij CA, Bennett D, Rodgers A.
Cochrane Database Syst Rev. 2005 Jul 20; (3):CD003892. Epub 2005 Jul 20.

Effect of chitosan on weight loss in overweight and obese individuals: a systematic review of randomized controlled trials.

Mhurchu CN, Dunshea-Mooij C, Bennett D, Rodgers A.
Obes Rev. 2005 Feb; 6(1):35-42.

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This column displays citations for systematic reviews, meta-analyses, reviews of clinical trials, evidence-based medicine, consensus development conferences, and guidelines. See [filter information](#) or additional [related sources](#).

Results: 3 of 3

Antibese effects of capsaicin-chitosan microsphere (CCMS) in obese rats induced by high fat diet.

Tan S, Gao B, Tao Y, Guo J, Su ZQ.
J Agric Food Chem. 2014 Feb 26; 62(8):1866-74. Epub 2014 Feb 14.

Chitooligosaccharide ameliorates diet-induced obesity in mice and affects adipose gene expression involved in adipogenesis and inflammation.

Choi EH, Yang HP, Chun HS.
Nutr Res. 2012 Mar; 32(3):218-28.

Hypoglycemic and hypolipidemic effect of chitosan in normal and neonatal streptozotocin-induced diabetic mice.

Miura T, Usami M, Tsuura Y, Ishida H, Seino Y.
Biol Pharm Bull. 1995 Nov; 18(11):1623-5.

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 - 10 years
 - Custom range...
- Species
 - Humans
- Ages
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 - Adult: 19-44 years
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Kaats GR, Michalek JE, Preuss HG. J Am Coll Nutr. 2006 Oct;25(5):389-94. PMID: 17031007 [PubMed - indexed for MEDLINE] [Related citations](#)
- [The effect of the dietary supplement, Chitosan, on body weight: a randomised controlled trial in 250 overweight and obese adults.](#)
Mhurchu CN, Poppitt SD, McGill AT, Leahy FE, Bennett DA, Lin RB, Ormrod D, Ward L, Strik C,

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Try the new Display Settings option - Sort by Relevance

Find related data
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Search details
Therapy/Narrow[filter] AND
(("Overweight"[Mesh] OR "Obesity"[Mesh]) AND "Chitosan"[Mesh])
Search See more...

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((Therapy/Narrow[filter]) AND (((("Overweight"[Mesh]) OR "Obesity"[Mesh]) AND "Chitosan"[Mesh]))
chitosan (82)
("Overweight"[Mesh]) OR "Obesity"[Mesh] (147312)
obes* (147)

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Species

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Ages

Child: birth-18 years
Adult: 19+ years
Adult: 19-44 years
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<input type="radio"/> Summary (text)	<input type="radio"/> 10	<input type="radio"/> Pub Date
<input type="radio"/> Abstract	<input checked="" type="radio"/> 20	<input type="radio"/> First Author
<input type="radio"/> Abstract (text)	<input type="radio"/> 50	<input type="radio"/> Last Author
<input type="radio"/> MEDLINE	<input type="radio"/> 100	<input type="radio"/> Journal
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- [The effect of the dietary supplement, Chitosan, on body weight: a randomised controlled trial in 250 overweight and obese adults.](#)
3. Mhurchu CN, Poppitt SD, McGill AT, Leahy FE, Bennett DA, Lin RB, Ormrod D, Ward L, Strik C, Rodgers A.
Int J Obes Relat Metab Disord. 2004 Sep;28(9):1149-56.
PMID: 15311218 [PubMed - indexed for MEDLINE]
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4. Zahorska-Markiewicz B, Krotkiewski M, Olszanecka-Glinianowicz M, Zurakowski A.
Pol Merkur Lekarski. 2002 Aug;13(74):129-32. Polish.
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5. Ho SC, Tai ES, Eng PH, Tan CE, Fok AC.
Singapore Med J. 2001 Jan;42(1):6-10.
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Try the new Display Settings option - Sort by Relevance

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```
Therapy/Narrow[filter] AND
(("Overweight"[Mesh] OR "Obesity"[Mesh])
OR "Obesity"[Mesh])
AND "Chitosan"[Mesh]
```

Search

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Recent Activity

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- 🔍 (Therapy/Narrow[filter]) AND (((("Overweight"[Mesh]) OR "Obesity"[Mesh]) AND "Chitosan"[Mesh])
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- 🔍 chitosan (82) MeSH
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Article types: Clinical Trial, Customize ...

Text availability: Abstract, Full text

Publication dates: 5 years, 10 years, Custom range...

Species: Humans

Ages: Child: birth-18 years, Adult: 19+ years, Adult: 19-44 years, Customize ...

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[The effect of the dietary supplement, Chitosan, on body weight: a randomised controlled trial in 250 overweight and obese adults.](#)
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[\[Effect of chitosan in complex management of obesity\].](#)
Zahorska-Markiewicz B, Krotkiewski M, Olszanecka-Glinianowicz M, Zurawski A. *Pol Merkur Lekarski.* 2002 Aug;13(74):129-32. Polish. PMID: 12420344 [PubMed - indexed for MEDLINE] [Related citations](#)

[In the absence of dietary surveillance, chitosan does not reduce plasma lipids or obesity in hypercholesterolaemic obese Asian subjects.](#)
Ho SC, Tai ES, Eng PH, Tan CE, Fok AC. *Singapore Med J.* 2001 Jan;42(1):6-10. PMID: 11361230 [PubMed - indexed for MEDLINE] [Related citations](#)

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OR "Obesity"[Mesh
AND "Chitosan"[Me

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(((("Overweight"[Mesh]) O
- (Therapy/Narrow[filter]) A
(((("Overweight"[Mesh]) O
- chitosan (82)
- ("Overweight"[Mesh]) OF
(147312)
- obes* (147)

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تمرین

سناریو ۱

یک متخصص بهداشتی قبلا در مدارس راهنمایی و دبیرستان پسرانه یک شهر، برنامه ای مبتنی بر مشارکت مدرسه (سخنرانی برای دانش آموزان، سخنرانی برای والدین، آگاهی بخشی از طریق مشاوره به دانش آموزان، گروه همسالان، پخش پمفلت) را برای پیشگیری از ابتلا دانش آموزان به دخانیات به اجرا درآورده و نتایج آن را سنجیده است. اکنون می خواهد بداند که تاثیر برنامه های مبتنی بر جامعه (نظیر آگاهی رسانی از طریق رسانه های جمعی، کنترل فروش دخانیات، بنر و پوسترهای تبلیغاتی در سطح شهر و...) در مقایسه با برنامه های قبلی او، در پیشگیری از ابتلا به دخانیات چگونه است؟

P ?

I ?

C ?

O ?

سوال بالینی؟

نوع سوال بالینی؟

آیا برنامه های جامعه محور در مقایسه با برنامه های مدرسه محور، در پیشگیری از ابتلا به دخانیات در دانش آموزان پسر موثرترند؟

Population P	Interventions I	Comparisons C	Outcomes O
دانش آموزان - پسر (۲)	برنامه های جامعه محور پیشگیری از ابتلا به دخانیات (۱)	برنامه های مدرسه محور پیشگیری از ابتلا به دخانیات (۴)	تاثیر بیشتر (۳)
درمانی			نوع سوال بالینی
مرورهای نظام مند، متاآنالیزها، کارآزمایی های بالینی تصادفی شده و مطالعات کوهورت			اولویت مطالعات

- ▶ (teen* OR youth OR young people OR child* OR boy OR adolescent) **AND**
- ▶ (community based OR population based OR community wide OR population wide) **AND**
- ▶ ("school based" OR class* based) **AND**
- ▶ (smoke OR smoking OR cigarette or tobacco OR hookah) **AND**
- ▶ (control OR prevent*) **AND**

تمرین

سوال ۲ ▶

تاثیر جراحی در مقایسه با درمانهای غیر جراحی در بهبود کیفیت زندگی و بهبودی بزرگسالان مبتلا به رفلکس معدی چگونه است؟

P ?

I ?

C ?

O ?

تأثیر جراحی در مقایسه با درمانهای غیر جراحی در بهبود کیفیت زندگی و بهبودی
بزرگسالان مبتلا به رفلکس معدی چگونه است؟

Population P	Interventions I	Comparisons C	Outcomes O
بزرگسالان مبتلا به ریفلاکس معدی (۲)	جراحی (۱)	درمانهای غیر جراحی (۴)	بهبودی- بهبود کیفیت زندگی (۳)
درمانی			نوع سوال بالینی
مرورهای نظام مند، متآنالیزها، کارآزمایی های بالینی تصادفی شده و مطالعات کوهورت			اولویت مطالعات

سوال؟

با تشکر