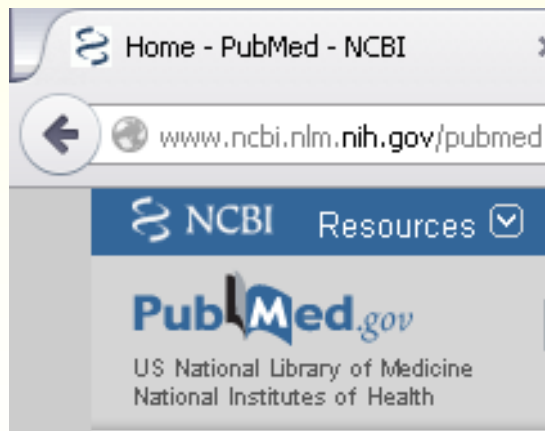


How to stop looking in the wrong place?



Use PubMed!

Why not just use



Plus's

- Fast!
- Easy to remember web address
- Its huge - you always find something
- It includes PubMed citations

Downside

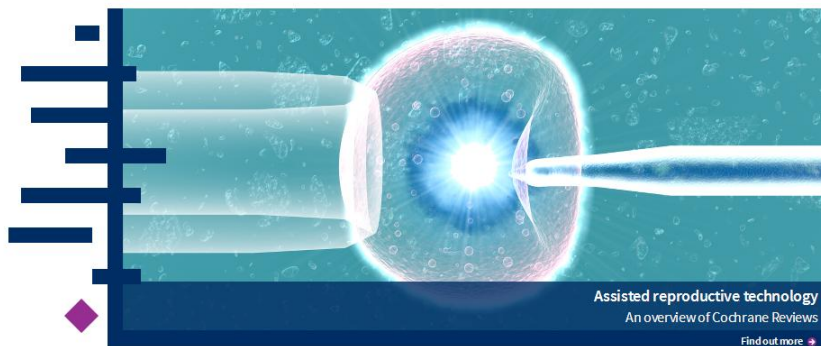
- Is simply finding something, enough?
- No filtering – you get information from biased, commercial sites
- No ranking of evidence strength
- Despite fast search speeds, it takes time to shift through results

ELSEVIER

Embase[®]

Improve your biomedical research with the world's most comprehensive biomedical literature database

- It is a comprehensive international biomedical database.
- It enables to track and retrieve precise information on drugs and diseases with particular regard to critical toxicological information.
- About 40% of the content coincides with Medline.
- It is a chargeable service.



Assisted reproductive technology
An overview of Cochrane Reviews
[Find out more](#)



Portion and package sizing
[Read the review](#)



Cochrane Colloquium 2015
[Find out more](#)

Highlighted Reviews Editorials Special Collections

Rehabilitation for distal radial fractures in adults
Helen HG Handoll, Joanne Elliott
25 September 2015

Consultation liaison in primary care for people with mental disorders
Donna Gillies, Penny Buyck, Alexandra G Parker, Sarah E Hetrick
18 September 2015



Cochrane Library

- You can consult several systematic reviews carried out by the working groups of the Cochrane Collaboration.
- The access needs a paid subscription.

www.cochrane.it/it/la-cochrane-library

National Library of Medicine

- Founded in 1836, NLM is the world's largest biomedical library



The screenshot shows the NIH logo and the text "U.S. National Library of Medicine" at the top. Below this is a list of databases under the heading "Databases". To the right of the list is a featured article titled "Climate Change and Health" with a sub-heading "Climate Change and Health" and a description "Selected links to information on climate change and human health". The background of the featured article is a photograph of a dry, cracked earth path leading through sparse, dry vegetation.

NIH U.S. National Library of Medicine

Databases

- PubMed/MEDLINE
- MeSH
- UMLS
- ClinicalTrials.gov
- MedlinePlus
- TOXNET
- Images from the History of Medicine
- Digital Collections
- LocatorPlus
- All NLM Databases & APIs

Climate Change and Health

Climate Change and Health
Selected links to information on climate change and human health

<http://www.nlm.nih.gov>

PubMed or Medline?



- Medline® is the U.S. NLM journal citation database. Started in the 1960s, it now provides over 22 million references to biomedical and life sciences journal articles back to 1946.
- It includes citations from over 5,600 scholarly journals published around the world.
- The means by which you can query Medline is PubMed that is its free interface.

PubMed

■ Its over 25 million references include the Medline database plus:

■ *In-process citations*, which provide records for articles before they go through quality control and are indexed with MeSH

■ *Citations to articles that are out-of-scope* (e.g., covering plate tectonics or astrophysics) from certain MEDLINE journals, primarily general science and general chemistry journals, for which only the life sciences articles are indexed with MeSH

■ *Ahead of Print* citations that precede the article's final publication in a Medline indexed journal

■ *Pre-1966* citations that have not yet been updated with current MeSH and converted to MEDLINE status

PubMed

- *Citations that precede the date that a journal was selected for MEDLINE indexing (when supplied electronically by the publisher)*
- *Citations to some additional life sciences journals that submit full text to PMC and receive a qualitative review by NLM*
- *Citations to author manuscripts of articles published by NIH-funded researchers*
- *Citations for the majority of books available on the NCBI Bookshelf (a citation for the book and in some cases each chapter of the book)*

PubMed

- PubMed is a free resource that is developed and maintained by the National Center for Biotechnology Information (NCBI), at the U.S. National Library of Medicine (NLM), located at the National Institute of Health (NIH).
- The subject is biomedicine and health, broadly defined to encompass those areas of the life sciences, behavioral sciences, chemical sciences, and bioengineering needed by health professionals and others engaged in basic research and clinical care, public health, health policy development, or related educational activities.
- It also covers life sciences, including aspects of biology, environmental science, marine biology, plant and animal science as well as biophysics and chemistry. Increased coverage of life sciences began in 2000.

Free account to expand the possibilities of using PubMed

www.ncbi.nlm.nih.gov/pubmed

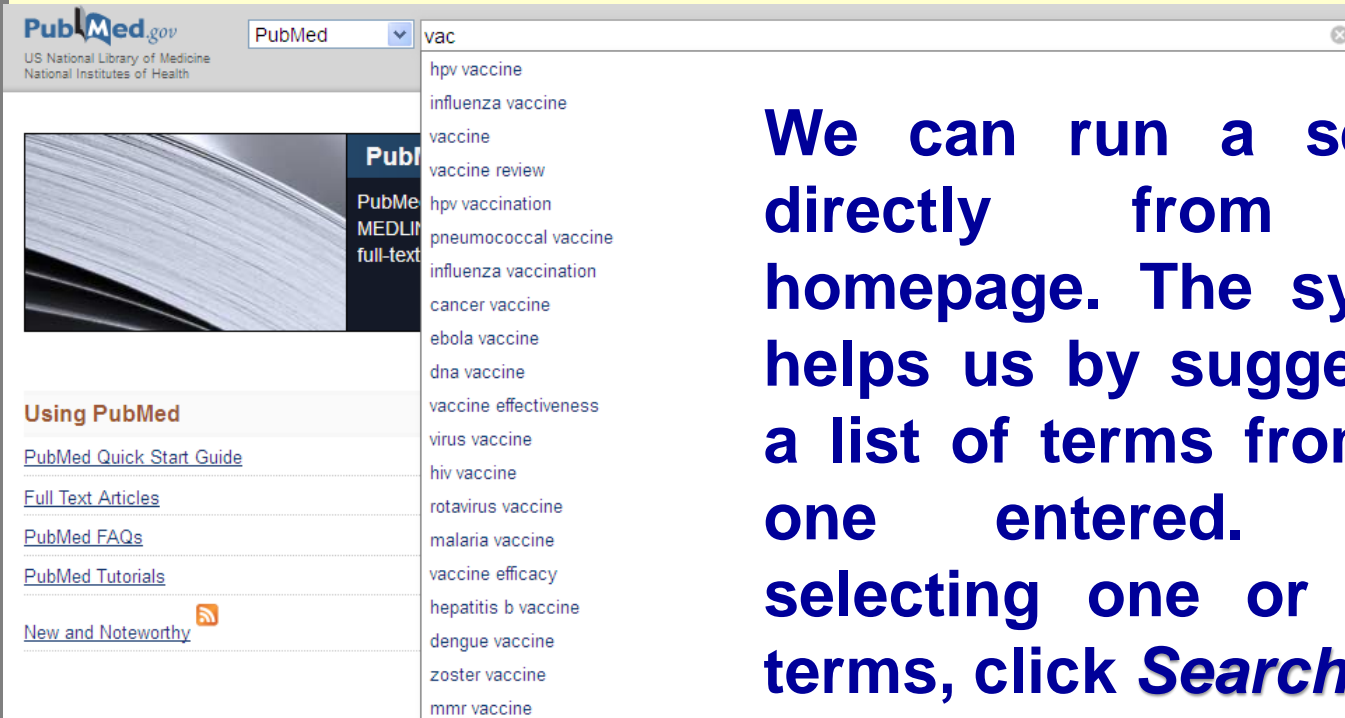
The screenshot shows the PubMed website interface. At the top, there is a navigation bar with 'NCBI Resources' and 'How To' menus. A search bar is present with a 'Search' button and a 'Sign in to NCBI' link. Below the search bar, there is a 'PubMed' section with a description: 'PubMed comprises more 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 Central and publisher web sites.' To the right, there is a 'PubMed COMMONS' section with a 'Featured comment' about herbicide effects on earthworms. Below these sections, there are three columns of links: 'Using PubMed' (including Quick Start Guide, Full Text Articles, FAQs, Tutorials, and New and Noteworthy), 'PubMed Tools' (including Mobile, Single Citation Matcher, Batch Citation Matcher, Clinical Queries, and Topic-Specific Queries), and 'More Resources' (including MeSH Database, Journals in NCBI Databases, Clinical Trials, E-Utilities (API), and LinkOut). Red arrows point from the top text to the 'Sign in to NCBI' link, and from the bottom text to the 'Using PubMed', 'PubMed Tools', and 'More Resources' sections.

Several help texts
Online training by
movies

Direct access to:
■ the journal search
■ search of clinical studies
■ pool of various special searches

Direct
access to
certain
databases

Simple search



The screenshot shows the PubMed.gov homepage. At the top left is the logo for PubMed.gov, US National Library of Medicine, National Institutes of Health. Below the logo is a navigation menu with links: "Using PubMed", "PubMed Quick Start Guide", "Full Text Articles", "PubMed FAQs", "PubMed Tutorials", and "New and Noteworthy". On the right side, there is a search bar with the text "vac" entered. A dropdown menu is open, displaying a list of suggestions: "hpv vaccine", "influenza vaccine", "vaccine", "vaccine review", "hpv vaccination", "pneumococcal vaccine", "influenza vaccination", "cancer vaccine", "ebola vaccine", "dna vaccine", "vaccine effectiveness", "virus vaccine", "hiv vaccine", "rotavirus vaccine", "malaria vaccine", "vaccine efficacy", "hepatitis b vaccine", "dengue vaccine", "zoster vaccine", and "mnr vaccine".

We can run a search directly from the homepage. The system helps us by suggesting a list of terms from the one entered. After selecting one or more terms, click *Search*.

Combining similar terms

Use Boolean operators to combine different terms:

■ **OR** → to combine different terms for the same concept, synonyms, alternative spellings or related items; OR will search for articles containing any of the terms we chose

■ **AND** → to combine different concepts; it will search for articles which contain all of the terms we have chosen

■ **NOT** → excludes concepts but must be used with caution to avoid excluding relevant items

Simple search by search field tags

- [au] - author
- [dp] - date published (YYYY/MM/DD)
- [ip] - issue, part or supplement
- [la] - language
- [pg] - first page number of the article
- [pmid] - PubMed ID
- [pt] - publication type
- [ta] - journal title
- [ti] - title words
- [vi] – volume

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

Summary ▾ Sort by Most Recent ▾ [Send to:](#)

Search results

Items: 3

- [A first survey of HPV-based screening in routine cervical cancer screening in Italy.](#)
1. **Ronco** G, Giorgi Rossi P, Giubilato P, Del Mistro A, Zappa M, Carozzi F; HPV screening survey group. *Epidemiol Prev.* 2015 May-Jun;39(3 Suppl 1):77-83.
PMID: 26405779
[Similar articles](#)
- [HPV-based screening for prevention of invasive cervical cancer - Authors' reply.](#)
2. **Ronco** G, Meijer CJ, Segnan N, Kitchener H, Giorgi-Rossi P, Peto J, Dillner J. *Lancet.* 2014 Apr 12;383(9925):1295. doi: 10.1016/S0140-6736(14)60645-0. No abstract available.
PMID: 24725577
[Similar articles](#)
- [Efficacy of HPV-based screening for prevention of invasive cervical cancer: follow-up of four European randomised controlled trials.](#)
3. **Ronco** G, Dillner J, Elfström KM, Tunesi S, Snijders PJ, Arbyn M, Kitchener H, Segnan N, Gilham C, Giorgi-Rossi P, Berkhof J, Peto J, Meijer CJ; International HPV screening working group. *Lancet.* 2014 Feb 8;383(9916):524-32. doi: 10.1016/S0140-6736(13)62218-7. Epub 2013 Nov 3.
PMID: 24192252
[Similar articles](#)

Save options

You can save the abstract:

- file (copy of abstract will be saved on the computer)
- clipboard (copy will be saved virtual, limit: 500 results for 8 hours)
- collections (saves search queries)
- email (copy of the article and an optional message will be send to an email address)
- order (interlibrary lending /document delivery)
- citation manager (generate a file for use with external citation management software)

Abstract ▾

[Epidemiol Prev.](#) 2015 May-Jun;39(3 Suppl 1):77-83.

A first survey of HPV-based screening in routine cervical cancer screening in Italy.

[Ronco G¹](#), [Giorgi Rossi P](#), [Giubilato P](#), [Del Mistro A](#), [Zappa M](#), [Carozzi F](#); HPV screening survey group.

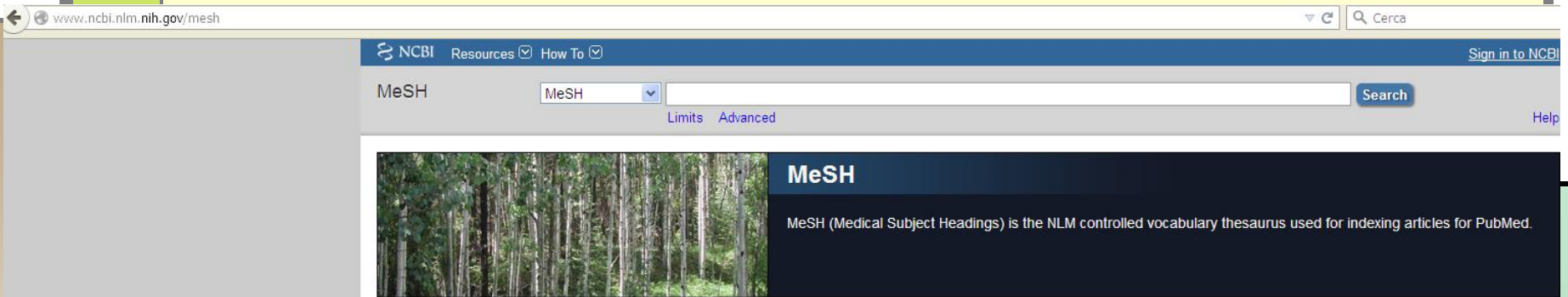
⊕ Author information

Send to: ▾

Choose Destination

- | | |
|--|---------------------------------------|
| <input type="radio"/> File | <input type="radio"/> Clipboard |
| <input type="radio"/> Collections | <input type="radio"/> E-mail |
| <input type="radio"/> Order | <input type="radio"/> My Bibliography |
| <input type="radio"/> Citation manager | |

MeSH: Medical Subject Headings



- MeSH is the controlled vocabulary used for indexing articles and helps to find articles on the topic, regardless of the exact wording used by the authors
- Subject terms are selected and approved for use by NLM
- Each year subject headings are revised with additions and deletions

MeSH: Medical Subject Headings

- It consists of sets of terms naming descriptors in a hierarchical structure that permits searching at various levels of specificity.
- MeSH descriptors are arranged in both an alphabetic and a hierarchical structure.
- At the most general level of the hierarchical structure are very broad headings such as “Anatomy” or “Mental Disorders”. More specific headings are found at more narrow levels of the twelve-level hierarchy, such as “Ankle” and “Conduct Disorder”.
- There are 27,455 descriptors in 2015 MeSH. There are also over 224,000 entry terms that assist in finding the most appropriate MeSH Heading, for example, “Vitamin C” is an entry term to “Ascorbic Acid”.

Summary ▾ 20 per page ▾

Send to:

Search results

Items: 1 to 20 of 237

<< First < Prev Page 1 of 12 Next > Last

 [Vaccines](#)

1. Suspensions of killed or attenuated microorganisms (bacteria, viruses, fungi, protozoa, or rickettsiae), antigenic proteins derived from them, or synthetic constructs, administered for the prevention, amelioration, or treatment of infectious and other diseases.

 [Vaccine Potency](#)

2. The relationship between an elicited ADAPTIVE IMMUNE RESPONSE and the dose of the **vaccine** administered.
Year introduced: 2014

 [Herpes Zoster Vaccine](#)

3. An attenuated **vaccine** used to prevent and/or treat HERPES ZOSTER, a disease caused by HUMAN HERPESVIRUS 3.
Year introduced: 2007

 [Measles-Mumps-Rubella Vaccine](#)

4. A combined **vaccine** used to prevent MEASLES; MUMPS; and RUBELLA.
Year introduced: 2001

 [Diphtheria-Tetanus Vaccine](#)

5. A combined **vaccine** used to prevent infection with diphtheria and tetanus toxoid. This is used in place of DTP **vaccine** (DIPHTHERIA-TETANUS-PERTUSSIS **VACCINE**) when PERTUSSIS **VACCINE** is contraindicated.
Year introduced: 2001

 [Yellow Fever Vaccine](#)

6. **Vaccine** used to prevent YELLOW FEVER. It consists of a live attenuated 17D strain of the YELLOW FEVER VIRUS.
Year introduced: 2001

 [Chickenpox Vaccine](#)

7. A live, attenuated varicella virus **vaccine** used for immunization against chickenpox. It is recommended for children between the ages of 12 months and 13 years.
Year introduced: 1997

 [Diphtheria-Tetanus-Pertussis Vaccine](#)

8. A **vaccine** consisting of DIPHTHERIA TOXOID; TETANUS TOXOID; and whole-cell PERTUSSIS **VACCINE**. The **vaccine** protects against diphtheria, tetanus, and whooping cough.
Year introduced: 1990

Vaccines

Suspensions of killed or attenuated microorganisms (bacteria, viruses, fungi, protozoa, or rickettsiae), antigenic proteins derived from them, or synthetic constructs, administered for the prevention, amelioration, or treatment of infectious and other diseases.

PubMed search builder options

Subheadings:

- | | | |
|---|--|--|
| <input type="checkbox"/> abnormalities | <input type="checkbox"/> diagnostic use | <input type="checkbox"/> pharmacology |
| <input type="checkbox"/> administration and dosage | <input type="checkbox"/> drug effects | <input type="checkbox"/> physiology |
| <input type="checkbox"/> adverse effects | <input type="checkbox"/> economics | <input type="checkbox"/> poisoning |
| <input type="checkbox"/> agonists | <input type="checkbox"/> embryology | <input type="checkbox"/> prevention and control |
| <input type="checkbox"/> analysis | <input type="checkbox"/> etiology | <input type="checkbox"/> radiation effects |
| <input type="checkbox"/> anatomy and histology | <input type="checkbox"/> genetics | <input type="checkbox"/> secretion |
| <input type="checkbox"/> antagonists and inhibitors | <input type="checkbox"/> history | <input type="checkbox"/> standards |
| <input type="checkbox"/> biosynthesis | <input type="checkbox"/> immunology | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> blood | <input type="checkbox"/> instrumentation | <input type="checkbox"/> supply and distribution |
| <input type="checkbox"/> cerebrospinal fluid | <input type="checkbox"/> isolation and purification | <input type="checkbox"/> therapeutic use |
| <input type="checkbox"/> chemical synthesis | <input type="checkbox"/> legislation and jurisprudence | <input type="checkbox"/> therapy |
| <input type="checkbox"/> chemistry | <input type="checkbox"/> metabolism | <input type="checkbox"/> toxicity |
| <input type="checkbox"/> classification | <input type="checkbox"/> methods | <input type="checkbox"/> ultrastructure |
| <input type="checkbox"/> complications | <input type="checkbox"/> microbiology | <input type="checkbox"/> urine |
| <input type="checkbox"/> contraindications | <input type="checkbox"/> organization and administration | <input type="checkbox"/> veterinary |
| <input type="checkbox"/> cytology | <input type="checkbox"/> pharmacokinetics | <input type="checkbox"/> virology |
| <input type="checkbox"/> deficiency | | |

Restrict to MeSH Major Topic.

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

Tree Number(s): D20.215.894

MeSH Unique ID: D014612

Choose if you want to limit search to MeSH Major Topic or search articles focusing only on the main term and eliminating those focusing on narrower terms

[All MeSH Categories](#)

[Chemicals and Drugs Category](#)

[Complex Mixtures](#)

[Biological Products](#)

Vaccines

[Alzheimer Vaccines](#)

[Bacterial Vaccines](#)

[Anthrax Vaccines](#)

[Autovaccines](#)

[Brucella Vaccine](#)

[Cholera Vaccines](#)

[Diphtheria-Tetanus-acellular Pertussis Vaccines](#)

[Diphtheria-Tetanus-Pertussis Vaccine](#)

[Diphtheria-Tetanus Vaccine](#)

[Escherichia coli Vaccines](#)

[Haemophilus Vaccines](#)

[Lyme Disease Vaccines](#)

[Meningococcal Vaccines](#)

[Pertussis Vaccine +](#)

[Plague Vaccine](#)

[Pseudomonas Vaccines](#)

[Rickettsial Vaccines](#)

[Salmonella Vaccines +](#)

[Shigella Vaccines](#)

[Staphylococcal Vaccines](#)

[Streptococcal Vaccines +](#)

[Tuberculosis Vaccines +](#)

[Cancer Vaccines](#)

[Fungal Vaccines](#)

[Protozoan Vaccines](#)

[Leishmaniasis Vaccines](#)

[Malaria Vaccines](#)

[Toxoids](#)

[Diphtheria Toxoid +](#)

[Staphylococcal Toxoid](#)

[Tetanus Toxoid +](#)

[Vaccines, Attenuated](#)

[Vaccines, Combined](#)

[Diphtheria-Tetanus-acellular Pertussis Vaccines](#)

[Diphtheria-Tetanus-Pertussis Vaccine](#)

[Diphtheria-Tetanus Vaccine](#)

[Measles-Mumps-Rubella Vaccine](#)

[Vaccines, Contraceptive](#)

[Vaccines, Inactivated](#)

[Poliovirus Vaccine, Inactivated](#)

[Vaccines, Live, Unattenuated](#)

[Vaccines, Marker](#)

[Vaccines, Subunit](#)

[Vaccines, Subunit](#)

[ISCOMs](#)

[Vaccines, Acellular +](#)

[Vaccines, Edible](#)

[Vaccines, Synthetic](#)

[Vaccines, Conjugate](#)

[Vaccines, DNA](#)

[Vaccines, Edible](#)

[Vaccines, Virosome](#)

[Vaccines, Virus-Like Particle](#)

[Viral Vaccines](#)

[Adenovirus Vaccines](#)

[AIDS Vaccines](#)

[Cytomegalovirus Vaccines](#)

[Dengue Vaccines](#)

[Ebola Vaccines](#)

[Herpesvirus Vaccines +](#)

[Influenza Vaccines](#)

[Japanese Encephalitis Vaccines](#)

[Measles-Mumps-Rubella Vaccine](#)

[Measles Vaccine +](#)

[Mumps Vaccine +](#)

[Papillomavirus Vaccines](#)

[Parainfluenza Vaccines](#)

[Poliovirus Vaccines +](#)

[Pseudorabies Vaccines](#)

[Rabies Vaccines](#)

[Respiratory Syncytial Virus Vaccines](#)

[Rotavirus Vaccines](#)

[Rubella Vaccine +](#)

[SAIDS Vaccines](#)

[Smallpox Vaccine](#)

[Viral Hepatitis Vaccines +](#)

[West Nile Virus Vaccines](#)

[Yellow Fever Vaccine](#)

Herpesvirus Vaccines

Vaccines or candidate vaccines used to prevent infection by any virus from the family HERPESVIRIDAE.

Year introduced: 2001

PubMed search builder options

Subheadings:

- | | | |
|--|---|--|
| <input type="checkbox"/> administration and dosage | <input type="checkbox"/> contraindications | <input type="checkbox"/> organization and administration |
| <input type="checkbox"/> adverse effects | <input type="checkbox"/> economics | <input type="checkbox"/> pharmacokinetics |
| <input type="checkbox"/> analysis | <input type="checkbox"/> etiology | <input type="checkbox"/> pharmacology |
| <input type="checkbox"/> biosynthesis | <input type="checkbox"/> genetics | <input type="checkbox"/> physiology |
| <input type="checkbox"/> blood | <input type="checkbox"/> history | <input type="checkbox"/> standards |
| <input type="checkbox"/> chemical synthesis | <input type="checkbox"/> immunology | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> chemistry | <input type="checkbox"/> isolation and purification | <input type="checkbox"/> supply and distribution |
| <input type="checkbox"/> classification | <input type="checkbox"/> metabolism | <input type="checkbox"/> therapeutic use |

Restrict to MeSH Major Topic.

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

Tree Number(s): D20.215.894.899.290

MeSH Unique ID: D022283

Entry Terms:

- Vaccines, Herpesvirus

Previous Indexing:

- [Viral Vaccines \(1965-2000\)](#)

[All MeSH Categories](#)

[Chemicals and Drugs Category](#)

[Complex Mixtures](#)

[Biological Products](#)

[Vaccines](#)

[Viral Vaccines](#)

Herpesvirus Vaccines

[Chickenpox Vaccine](#)

[Herpes Zoster Vaccine](#)

[Herpes Simplex Virus Vaccines](#)

[Marek Disease Vaccines](#)

Herpes Zoster Vaccine

An attenuated vaccine used to prevent and/or treat HERPES ZOSTER, a disease caused by HUMAN HERPESVIRUS 3.

Year introduced: 2007

PubMed search builder options

[Subheadings:](#)

- | | | |
|--|--|--|
| <input type="checkbox"/> administration and dosage | <input type="checkbox"/> etiology | <input type="checkbox"/> pharmacology |
| <input type="checkbox"/> adverse effects | <input type="checkbox"/> genetics | <input type="checkbox"/> physiology |
| <input type="checkbox"/> analysis | <input type="checkbox"/> immunology | <input type="checkbox"/> standards |
| <input type="checkbox"/> biosynthesis | <input type="checkbox"/> metabolism | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> blood | <input type="checkbox"/> organization and administration | <input type="checkbox"/> supply and distribution |
| <input type="checkbox"/> contraindications | <input type="checkbox"/> pharmacokinetics | <input type="checkbox"/> therapeutic use |
| <input type="checkbox"/> economics | | |

Restrict to MeSH Major Topic.

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

Tree Number(s): D20.215.894.899.290.130.400

MeSH Unique ID: D053061

Entry Terms:

- Vaccine, Herpes Zoster
- Zoster Vaccine
- Vaccine, Zoster
- Shingles Vaccine
- Vaccine, Shingles
- Zostavax

Previous Indexing:

- [Chickenpox Vaccine \(1989-2006\)](#)

[All MeSH Categories](#)

[Chemicals and Drugs Category](#)

[Complex Mixtures](#)

[Biological Products](#)

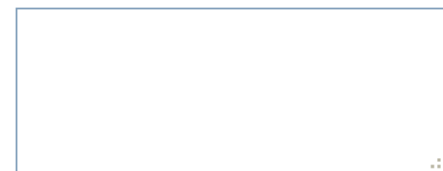
[Vaccines](#)

[Viral Vaccines](#)

[Herpesvirus Vaccines](#)

[Chickenpox Vaccine](#)

Herpes Zoster Vaccine



Add to search builder AND ▾

Search PubMed



Tutorial

Related information

PubMed

PubMed - Major Topic

Clinical Queries

NLM MeSH Browser

MedGen

PubChem Substance

Recent Activity

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

[Herpes Zoster Vaccine](#) MeSH

[Herpesvirus Vaccines](#) MeSH

[Vaccines](#) MeSH

[vaccine \(237\)](#) MeSH

[A first survey of HPV-based screening in routine cervical cancer screening in It](#) PubMed

[See more...](#)

Summary ▾ 20 per page ▾ Sort by Most Recent ▾

Send to: ▾

Search results

Items: 1 to 20 of 417

<< First < Prev Page 1 of 21 Next > Last >>

 [Evaluation of efficacy and effectiveness of live attenuated zoster vaccine.](#)

1. Gabutti G, Valente N, Sulcaj N, Stefanati A.
J Prev Med Hyg. 2014 Dec;55(4):130-6. Review.
PMID: 26137786
[Similar articles](#)

 [Physician advocacy for zoster vaccination.](#)

2. Kollipara R, Tyring SK.
Cutis. 2015 May;95(5):251. No abstract available.
PMID: 26057503
[Similar articles](#)

 [Risk of Herpes Zoster and Disseminated Varicella Zoster in Patients Taking Immunosuppressant Drugs at the Time of Zoster Vaccination.](#)

3. Cheetham TC, Marcy SM, Tseng HF, Sy LS, Liu IL, Bixler F, Baxter R, Donahue JG, Naleway AL, Jacobsen SJ.
Mayo Clin Proc. 2015 Jul;90(7):865-73. doi: 10.1016/j.mayocp.2015.04.021. Epub 2015 Jun 4.
PMID: 26051268
[Similar articles](#)

 [Practice nurses praised for shingles jab uptake.](#)

4. [No authors listed]
Nurs Times. 2014 Dec 10-16;110(50):5. No abstract available.
PMID: 26021043
[Similar articles](#)

 [Highlights from the 25th ECCMID.](#)

5. Bosurgi R, McConnell J, Mushtaq A.
Lancet Infect Dis. 2015 Jun;15(6):639-40. doi: 10.1016/S1473-3099(15)00010-9. Epub 2015 May 17. No abstract available.
PMID: 26008841
[Similar articles](#)

Advantages of MeSH

- It imposes uniformity and consistency to the indexing of biomedical literature (consistency in meaning of terms maintained over time)
- MeSH terms are arranged in a hierarchical categorized manner called MeSH Tree Structures and are updated annually.
- Synonyms are organized under one MeSH term
- Searching using MeSH allows you to overcome problems of spelling and terminology; especially when you might not be aware of different spellings or terminology.

■ The result of a search is a list of citations (including authors, title, source, and often an abstract) to journal articles and an indication of free electronic full-text availability. Searching is free of charge and does not require registration.

■ A growing number of MEDLINE citations contain a link to the free full text of the article archived in PubMed Central® or to other sites. You can also link from many MEDLINE references to the Web site of the publisher or other full text provider to request or view the full article, depending upon the publisher's access requirements.

Summary ▾ 20 per page ▾ Sort by Most Recent ▾

Send to: ▾ Filters: [Manage Filters](#)

Search results

Items: 1 to 20 of 1294

<< First < Prev Page 1 of 65 Next > Last >>

- [Cost-Effectiveness of Herpes Zoster Vaccine for Persons Aged 50 Years.](#)
1. Le P, Rothberg MB.
Ann Intern Med. 2015 Sep 8. doi: 10.7326/M15-0093. [Epub ahead of print]
PMID: 26344036
[Similar articles](#)
- [Live attenuated herpes zoster vaccine for HIV-infected adults.](#)
2. Shafran SD.
HIV Med. 2015 Aug 27. doi: 10.1111/hiv.12311. [Epub ahead of print]
PMID: 26315285
[Similar articles](#)
- [Risk of herpes zoster in children with asthma.](#)
3. Wi CI, Kim BS, Mehra S, Yawn BP, Park MA, Juhn YJ.
Allergy Asthma Proc. 2015 Sep;36(5):372-8. doi: 10.2500/aap.2015.36.3864.
PMID: 26314818 [Free PMC Article](#)
[Similar articles](#)
- [\[BREAST MILK AS A VEHICLE OF TRANSMISSION OF VIRUS\].](#)
- Garcia-Loygorri MC, De Luis D, Torreblanca B, March GA, Bachiller MR, Eiros JM.
Nutr Hosp. 2015 Jul 1;32(1):4-10. doi: 10.3305/nh.2015.32.1.8794. Spanish.
PMID: 26262690 [Free Article](#)
[Similar articles](#)
- [The Impact of Pharmacist Interventions on Herpes Zoster Vaccination Rates.](#)
5. Eid DD, Meagher RC, Lengel AJ.
Consult Pharm. 2015;30(8):459-62. doi: 10.4140/TCP.n.2015.459.
PMID: 26260642
[Similar articles](#)
- [Integrating between-host transmission and within-host immunity to analyze the impact of varicella vaccination on zoster.](#)
6. Ogunjimi B, Willem L, Beutels P, Hens N.
Elife. 2015 Jul 11;4. doi: 10.7554/eLife.07116.
PMID: 26259874 [Free PMC Article](#)
[Similar articles](#)

New feature

Try the new Display Settings option -
[Sort by Relevance](#)

Results by year

[Download CSV](#)

Related searches

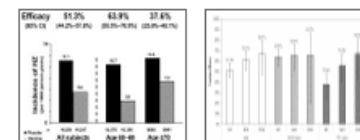
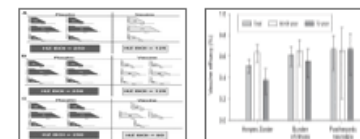
[herpes zoster vaccine efficacy](#)

[herpes zoster vaccine nejm](#)

[herpes zoster vaccine effectiveness](#)

[herpes zoster vaccine review](#)

[herpes zoster vaccine immunocompromised](#)

PMC Images search for *herpes zoster vaccine*[See more \(71\)...](#)

[Integrating between-host transmission and within-host immunity to analyze the impact of varicella vaccination on zoster.](#)

Ogunjimi B, Willem L, Beutels P, Hens N.
Elife. 2015 Jul 11;4. doi: 10.7554/eLife.07116.
PMID: 26259874 [Free PMC Article](#)
[Similar articles](#)

[\[VARICELLA ZOSTER VIRUS AND DISEASES OF CENTRAL NERVOUS SYSTEM VESSELS\].](#)

7. Kazanova AS, Lavrov VF, Zverev VV.
Zh Mikrobiol Epidemiol Immunobiol. 2015 May-Jun;(3):106-16. Review. Russian.
PMID: 26259280
[Similar articles](#)

[\[Can we prevent pain becoming chronic?\].](#)

8. Hagelberg N, Haanpää M.
Duodecim. 2015;131(3):249-54. Review. Finnish.
PMID: 26245075
[Similar articles](#)

[Evaluation of varicella zoster virus-specific cell-mediated immunity by using an interferon-γ enzyme-linked immunosorbent assay.](#)

9. Hayashida K, Ozaki T, Nishimura N, Gotoh K, Funahashi K, Nakane K, Gomi Y, Manabe S, Ishikawa T, Yamanishi K.
J Immunol Methods. 2015 Jul 29. pii: S0022-1759(15)30027-2. doi: 10.1016/j.jim.2015.07.011. [Epub ahead of print]
PMID: 26232696
[Similar articles](#)

[A systematic review and meta-analysis of risk factors for postherpetic neuralgia.](#)

10. Forbes HJ, Thomas SL, Smeeth L, Clayton T, Farmer R, Bhaskaran K, Langan SM.
Pain. 2015 Jul 25. [Epub ahead of print]
PMID: 26218719
[Similar articles](#)

[\[Zona vaccine. molecular screening of lung cancer\].](#)

11. Nau JY.
Rev Med Suisse. 2015 Jun 3;11(477):1258-9. French. No abstract available.
PMID: 26211288
[Similar articles](#)

[Herpes Zoster Vaccination: Controversies and Common Clinical Questions.](#)

12. Van Epps P, Schmader KE, Canaday DH.
Gerontology. 2015 Jul 16. [Epub ahead of print]
PMID: 26184711
[Similar articles](#)



[See more \(71\)...](#)

Titles with your search terms

A vaccine to prevent **herpes zoster** and postherpetic neuralgia in olc [N Engl J Med. 2005]
Efficacy of an adjuvanted **herpes zoster** subunit vaccine in older adults. [N Engl J Med. 2015]
Review of the United States universal varicella vaccination program: **Herpes zos** [Vaccine. 2013]

[See more...](#)

Find related data

Database:

Search details

```
"herpes zoster vaccine"[MeSH Terms] OR ("herpes"[All Fields] AND "zoster"[All Fields] AND "vaccine"[All Fields]) OR "herpes zoster vaccine"[All Fields]
```

[See more...](#)

Recent Activity

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

herpes zoster vaccine (1294) PubMed

"Herpes Zoster Vaccine"[Mesh] (417) PubMed

Herpes Zoster Vaccine MeSH

Herpesvirus Vaccines MeSH

[Twenty Years of Medically-Attended Pediatric Varicella and Herpes Zoster in Ontario,](#)

13. [Canada: A Population-Based Study.](#)

Wormsbecker AE, Wang J, Rosella LC, Kwong JC, Seo CY, Crowcroft NS, Deeks SL.

PLoS One. 2015 Jul 15;10(7):e0129483. doi: 10.1371/journal.pone.0129483. eCollection 2015.

PMID: 26177077 [Free PMC Article](#)

[Similar articles](#)

[Herpes Zoster and Postherpetic Neuralgia: Practical Consideration for Prevention and](#)

14. [Treatment.](#)

Jeon YH.

Korean J Pain. 2015 Jul 28(3):177-84. doi: 10.3344/kjp.2015.28.3.177. Epub 2015 Jul 1. Review.

PMID: 26175877 [Free PMC Article](#)

[Similar articles](#)

[Severe Autoimmune Adverse Events Post Herpes Zoster Vaccine: A Case-Control Study](#)

15. [of Adverse Events in a National Database.](#)

Lai YC, Yew YW.

J Drugs Dermatol. 2015 Jul;14(7):681-4.

PMID: 26151783

[Similar articles](#)

[Acyclovir Prophylaxis Reduces the Incidence of Herpes Zoster Among HIV-Infected](#)

16. [Individuals: Results of a Randomized Clinical Trial.](#)

Barnabas RV, Baeten JM, Lingappa JR, Thomas KK, Hughes JP, Mugo NR, Delany-Moretwe S, Gray G, Rees H, Mujugira A, Ronald A, Stevens W, Kapiga S, Wald A, Celum C; Partners in Prevention HSV/HIV Transmission Study Team.

J Infect Dis. 2015 Jun 8. pii: JVI318. [Epub ahead of print]

PMID: 26142452

[Similar articles](#)

[Clinical and economic impact of various strategies for varicella immunity screening and](#)

17. [vaccination of health care personnel.](#)

Baraoco GJ, Eisert S, Saavedra S, Hirsch P, Marin M, Ortega-Sanchez IR.

Am J Infect Control. 2015 Jun 30. pii: S0196-6553(15)00616-1. doi: 10.1016/j.ajic.2015.05.027. [Epub ahead of print]

PMID: 26138999

[Similar articles](#)

[Evaluation of efficacy and effectiveness of live attenuated zoster vaccine.](#)

18. Gabutti G, Valente N, Sulcaj N, Stefanati A.

J Prev Med Hyg. 2014 Dec;55(4):130-5. Review.

PMID: 26137786

[Similar articles](#)

[Management and Prevention of Herpes Zoster Ocular Disease.](#)

19. Cohen EJ.

Cornea. 2015 Oct;34 Suppl 10:S3-8. doi: 10.1097/ICO.0000000000000503.

PMID: 26114827

[Similar articles](#)

[\[Vaccines against varicella-zoster virus \(VZV\)\].](#)

20. Salleras L, Salleras M, Soldevila N, Prat A, Garrido P, Domínguez Á.

Enferm Infect Microbiol Clin. 2015 Jun-Jul;33(6):411-23. doi: 10.1016/j.elifim.2015.05.005. Epub 2015 Jun 19. Spanish.

PMID: 26096575

[Similar articles](#)

Title

[Vaccination against zoster remains effective in older adults who later undergo chemotherapy.](#)

114. Tseng HF, Tartof S, Harpaz R, Luo Y, Sy LS, Hetcher RC, Jacobsen SJ.

Clin Infect Dis. 2014 Oct;59(7):913-9. doi: 10.1093/cid/ciu498. Epub 2014 Aug 4.

PMID: 25097079

[Free Article](#)

[Similar articles](#)

Journal

**ID: Search
for PMID**

**Full text link
is available**

Authors

[\[Shingles vaccine: which recommendations in 2014?\]](#)

132. Vionnet J, Hart K, Spertini F.
Rev Med Suisse. 2014 Apr 16;10(426):869-72, 874-5. French.
PMID: 24834646
[Similar articles](#)

**Square brackets indicate
article is not written in
English**



[Successes and challenges in varicella vaccine](#)

141. Papaloukas O, Giannouli G, Papaevangelou V.
Ther Adv Vaccines. 2014 Mar;2(2):39-55. doi: 10.1177/2051013613515621. Review.
PMID: 24757524 **Free PMC Article**
[Similar articles](#)

**Full text link
is available**



[Varicella zoster virus: chickenpox and shingles](#)

143. Gould D.
Nurs Stand. 2014 Apr 16-22;28(33):52-8; quiz 60. doi: 10.7748/ns2014.04.28.33.52.e8249
PMID: 24734838
[Similar articles](#)

**Full text link is
not available
through PMC**



[Links between herpes zoster incidence and childhood varicella vaccination](#)

144. Hales CM, Harpaz R, Bialek SR.
Ann Intern Med. 2014 Apr 15;160(8):582-3. doi: 10.7326/L14-5008-6. No abstract available.
PMID: 24733210

No abstract



- [Varicella **zoster** virus vaccines: potential complications and possible improvements.](#)
83. Silver B, Zhu H.
Virol Sin. 2014 Oct;29(5):265-73. doi: 10.1007/s12250-014-3516-9. Epub 2014 Oct 24. Review.
PMID: 25358998
[Similar articles](#)
- [Varicella-**zoster** virus-derived major histocompatibility complex class I-restricted peptide affinity is a determining factor in the HLA risk profile for the development of postherpetic neuralgia.](#)
84. Meysman P, Ogunjimi B, Naulaerts S, Beutels P, Van Tendeloo V, Laukens K.
J Virol. 2015 Jan 15;89(2):962-9. doi: 10.1128/JVI.02500-14. Epub 2014 Oct 29.
PMID: 25355886 [Free PMC Article](#)
[Similar articles](#)
- [Decreased varicella and increased **herpes zoster** incidence at a sentinel medical deputising service in a setting of increasing varicella **vaccine** coverage in Victoria, Australia, 1998 to 2012.](#)
85. Kelly HA, Grant KA, Gidding H, Carville KS.
Euro Surveill. 2014 Oct 16;19(41). pii: 20926.
PMID: 25345520 [Free Article](#)
[Similar articles](#)
- [Herpes **zoster** vaccine \(HZV\): utilization and coverage 2009 - 2013, Alberta, Canada.](#)
86. Liu XC, Simmonds KA, Russell ML, Svenson LW.
BMC Public Health. 2014 Oct 23;14:1098. doi: 10.1186/1471-2458-14-1098.
PMID: 25342438 [Free PMC Article](#)
[Similar articles](#)

Decreased varicella and increased herpes zoster incidence at a sentinel medical deputising service in a setting of increasing varicella vaccine coverage in Victoria, Australia, 1998 to 2012.

Kelly HA¹, Grant KA, Gidding H, Carville KS.

Author information

Abstract

We performed an ecological study using sentinel consultation data from a medical deputising service to assess the impact of increasing coverage with childhood varicella vaccine on the incidence risk of varicella and zoster in the population served by the deputising service in Victoria, Australia from 1998 to 2012. Following a successful vaccination programme, the incidence of varicella in Australia was modelled to decrease and the incidence of zoster to increase, based on a theoretical decrease in boosting of zoster immunity following a decrease in wild varicella virus circulation due to vaccination. Incidence risks (consultation proportions for varicella and zoster) were directly age-standardised to the Melbourne population in 2000, when varicella vaccine was first available. Age-standardised varicella incidence risk peaked in 2000 and halved by 2012. Age-standardised zoster incidence risk remained constant from 1998 to 2002, but had almost doubled by 2012. The increase in zoster consultations largely reflected increases in people younger than 50 years-old. Although causality cannot be inferred from ecological studies, it is generally agreed that the decrease in varicella incidence is due to increasing varicella vaccine coverage. The possible indirect effect of the vaccine on zoster incidence is less clear and ongoing monitoring of zoster is required.

PMID: 25345520 [PubMed - indexed for MEDLINE] [Free full text](#)

Full text links

[Online Full Text](#)
[Eurosurveillance](#)



Save items

[Add to Favorites](#)

Similar articles

[Modelling the impact of varicella and zoster.](#)

[\[Modelling the impact of epidemiology \[Rev Epid](#)

[Modelling the impact of zoster vaccination progr](#)

[Review The effect of va epidemiology of varicella](#)

[Review \[Immunization c](#)

Impact factor 5.7

HOME
ARCHIVES
ABOUT US
EDITORIAL POLICY
FOR AUTHORS
FOR REVIEWERS
LINKS
15-YEAR ANNIVERSARY

Search

[Submit article](#)

[RSS Feed](#)

[Follow us on Twitter](#)

[Subscribe](#)

[Unsubscribe](#)

[Contact](#)

[Sitemap](#)

Announcements

[EXPRESSION OF CONCERN FOR EURO SURVEILL. 2015.20\(25\)](#)

Expression of concern regarding paper by Park et al, published on 25 June 2015: "Epidemiological investigation of MERS-CoV spread in a single hospital in South Korea, May to June 2015". Euro Surveill. 2015.20(25) pii=21149. It has been brought to our attention that some of the authors may not have been informed about the content of the above paper. There is a lack of clarity regarding rights to use the data. The editorial team are investigating what action needs to be taken.

[EBOLA OUTBREAK](#)

Read our articles on the ongoing Ebola outbreak in West Africa

[TWITTER](#)

Follow Eurosurveillance on Twitter

Home » Eurosurveillance Edition: 2014, Volume 19 | Issue 41 | Article 3 Printer friendly version

[Back to Table of Contents](#)

[Previous](#) [Download article PDF](#) [Tweet](#) [14](#) [Next](#)

Eurosurveillance, Volume 19, Issue 41, 16 October 2014

Surveillance and outbreak reports

DECREASED VARICELLA AND INCREASED HERPES ZOSTER INCIDENCE AT A SENTINEL MEDICAL DEPUTISING SERVICE IN A SETTING OF INCREASING VARICELLA VACCINE COVERAGE IN VICTORIA, AUSTRALIA, 1998 TO 2012

H A Kelly (Health.Kelly@mnh.org.au)¹, K A Grant¹, H Gidding², K S Carville¹

[+ Author affiliations](#)

1. Victorian Infectious Diseases Reference Laboratory, the Doherty Institute, Melbourne, Australia
2. National Centre for Epidemiology and Public Health, Australian National University, Canberra, Australia
3. School of Public Health and Community Medicine, UNSW Medicine, the University of New South Wales, Sydney, Australia

Citation style for this article: Kelly HA, Grant KA, Gidding H, Carville KS. Decreased varicella and increased herpes zoster incidence at a sentinel medical deputising service in a setting of increasing varicella vaccine coverage in Victoria, Australia, 1998 to 2012. Euro Surveill. 2014;19(41):pii=20926. Article DOI: <http://dx.doi.org/10.2807/1560-7917.ES2014.19.41.20926>

Date of submission: 10 September 2013

We performed an ecological study using sentinel consultation data from a medical deputising service to assess the impact of increasing coverage with childhood varicella vaccine on the incidence risk of varicella and zoster in the population served by the deputising service in Victoria, Australia from 1998 to 2012. Following a successful vaccination programme, the incidence of varicella in Australia was modelled to decrease and the incidence of zoster to increase, based on a theoretical decrease in boosting of zoster immunity following a decrease in wild varicella virus circulation due to vaccination. Incidence risks (consultation proportions for varicella and zoster) were directly age-standardised to the Melbourne population in 2000, when varicella vaccine was first available. Age-standardised varicella incidence risk peaked in 2000 and halved by 2012. Age-standardised zoster incidence risk remained constant from 1998 to 2002, but had almost doubled by 2012. The increase in zoster consultations largely reflected increases in people younger than 50 years-old. Although causality cannot be inferred from ecological studies, it is generally agreed that the decrease in varicella incidence is due to increasing varicella vaccine coverage. The possible indirect effect of the vaccine on zoster incidence is less clear and ongoing monitoring of zoster is required.

In this issue

- Contour outbreaks of dengue, chikungunya and Zika virus infections – an unprecedented epidemic wave of mosquito-borne viruses in the Pacific 2012–2014
- European Antibiotic Awareness Day: a five-year perspective of Europe-wide actions to promote prudent use of antibiotics
- Decreased varicella and increased herpes zoster incidence at a sentinel medical deputising service in a setting of increasing varicella vaccine coverage in Victoria, Australia, 1998 to 2012
- [Letter to the Editor: Calendar needed when using adjusted meteorological data products for analyses in Africa](#)
- Author's reply: Station data and modelled climate data in Africa
- First European guidelines on syndromic surveillance in human and animal health published

Related articles

- Surveillance of varicella and herpes zoster in Slovenia, 1998 – 2005
- Research shows that highly potent vaccine reduces the burden of herpes zoster and the incidence of postherpetic neuralgia in older adults
- Impact of universal two-dose vaccination on varicella epidemiology in Navarre, Spain, 2006 to 2012
- Changes to the varicella and pertussis immunisation schedule in Germany 2005: Background, rationale and implementation
- Impact of the routine varicella vaccination programme on varicella epidemiology in Germany

Zoster Vaccine and the Risk of Postherpetic Neuralgia in Patients Who Developed Herpes Zoster Despite Having Received the Zoster Vaccine.

Tseng HF¹, Lewin B², Hales CM³, Sy LS¹, Harpaz R³, Bialek S³, Luo Y¹, Jacobsen SJ¹, Reddy K⁴, Huang PY², Zhang J⁴, Anand S¹, Bauer EM⁴, Chang J², Tartof SY¹.

Author information

Abstract

BACKGROUND: Although it is evident that zoster vaccination reduces postherpetic neuralgia (PHN) risk by reducing herpes zoster (HZ) occurrence, it is less clear whether the vaccine protects against PHN among patients who develop HZ despite previous vaccination.

METHODS: This cohort study included immunocompetent patients with HZ. The vaccinated cohort included 1155 individuals who were vaccinated against HZ at age ≥60 years and had an HZ episode after vaccination. Vaccinated patients were matched 1:1 by sex and age with unvaccinated patients. Trained medical residents reviewed the full medical record to determine the presence of HZ-related pain at 1, 2, 3, and 6 months after HZ diagnosis. The incidence of PHN was compared between vaccinated and unvaccinated patients.

RESULTS: Thirty vaccinated women (4.2%) experienced PHN, compared with 75 unvaccinated women (10.4%), with an adjusted relative risk of 0.41 (95% confidence interval, .26-.64). PHN occurred in 26 vaccinated men (6.0%) versus 25 unvaccinated men (5.8%), with an adjusted relative risk of 1.06 (.58-1.94). These associations did not differ significantly by age.

CONCLUSIONS: Among persons experiencing HZ, prior HZ vaccination is associated with a lower risk of PHN in women but not in men. This sex-related difference may reflect differences in healthcare-seeking patterns and deserve further investigation.

© The Author 2015. Published by Oxford University Press on behalf of the Infectious Diseases Society of America. All rights reserved. For Permissions, please e-mail: journals.permissions@oup.com.

KEYWORDS: adult vaccination; herpes zoster; post-herpetic neuralgia; shingles; varicella zoster virus

PMID: 26038400 [PubMed - in process]

FULL FINAL TEXT
OXFORD JOURNALS

Save items

☆ Add to Favorites

Similar articles

Herpes zoster vaccine effectiveness and manifestations c [Hum Vaccin Immunother. 2015]

Herpes zoster vaccine effectiveness against incident herpes zoster and pos [PLoS Med. 2013]

The impact of herpes zoster and post-herpetic neuralgia on quality-of-life. [BMC Med. 2010]

Review Herpes Zoster and Postherpetic Neuralgia: a review of [Aging Clin Exp Res. 2009]

Review Vaccination: a new option to reduce the burden of herpes zc [Expert Rev Vaccines. 2010]

See reviews...

See all...

Related information

OXFORD JOURNALS

CONTACT US MY BASKET MY ACCOUNT

The Journal of Infectious Diseases

ABOUT THE JOURNAL CONTACT THE JOURNAL SUBSCRIPTIONS CURRENT ISSUE ARCHIVE SEARCH

Institution: Universita degli Studi di Ferrara- Biblioteca S. Maria delle Grazie Sign In as Personal Subscriber

Oxford Journals > Medicine & Health > The Journal of Infectious Diseases > Volume 212, Issue 8 > Pp. 1222-1231.

Open Forum Infectious Diseases

Now indexed in PMC
Click for author information



This item requires a subscription to Journal of Infectious Diseases.



Full Text (HTML)
Zoster Vaccine and the Risk of Postherpetic Neuralgia in Patients Who Developed Herpes Zoster Despite Having Received the Zoster Vaccine

J Infect Dis. (2015) 212 (8): 1222-1231 first published online June 1, 2015

This Article

J Infect Dis. (2015) 212 (8): 1222-1231.
doi: 10.1093/infdis/jiv244
First published online: June 1, 2015

Abstract Free
» Full Text (HTML)
Full Text (PDF)

Search this journal:

GO

Advanced >

Current Issue

October 15, 2015 212 (8)



Eur J Pain. 2014 Sep;18(8):1217-8. doi: 10.1002/j.1532-2149.2014.495.x.


Introduction of a national herpes zoster (shingles) immunization programme and impact on neuropathic pain.

Murdoch H¹, Potts A, Colvin L, Cameron JC, Pollock KG.

⊕ **Author information**

PMID: 25139819 [PubMed - indexed for MEDLINE]


Full text links

Full Text Online 

Save items

☆ Add to Favorites

Wiley Online Library

 Log in / Register





OnlineOpen
Open Access Option
available for this journal

Open up your research
free to view ▪ free to download ▪ free to share
Find out more about your open access option ▶



Home > Anaesthesia & Pain Management > Pain Medicine > European Journal of Pain > Vol 18 Issue 8 > Abstract

JOURNAL TOOLS

-  Get New Content Alerts
-  Get RSS feed
-  Save to My Profile
-  Recommend to Your Librarian

JOURNAL MENU

Journal Home

FIND ISSUES

- Current Issue
- All Issues
- Virtual Issues

FIND ARTICLES

- Early View
- Editors' Choice

GET ACCESS

Subscribe / Renew

FOR CONTRIBUTORS

- OnlineOpen
- Author Guidelines
- Submit an Article

ABOUT THIS JOURNAL

- Society Information
- Overview



Letter To The Editor

Introduction of a national herpes zoster (shingles) immunization programme and impact on neuropathic pain

H. Murdoch¹, A. Potts¹, L. Colvin², J.C. Cameron¹ and K.G. Pollock¹

Article first published online: 19 AUG 2014

DOI: 10.1002/j.1532-2149.2014.495.x

© 2014 European Pain Federation - EFIC®



European Journal of Pain
Special Issue: Fibromyalgia
Volume 18, Issue 8, pages
1217–1218, September 2014



Additional Information [\(Show All\)](#)

[How to Cite](#) | [Author Information](#) | [Publication History](#)







Abstract | [Article](#) | [References](#) | [Cited By](#)

SEARCH

In this issue ▾

Advanced > Saved Searches >

ARTICLE TOOLS

-  Get PDF (70K)
-  Save to My Profile
-  E-mail Link to this Article
-  Export Citation for this Article
-  Get Citation Alerts
-  Request Permissions

 Share |    

LETTER TO THE EDITOR

Introduction of a national herpes zoster (shingles) immunization programme and impact on neuropathic pain

doi:10.1002/ejp.1532-2149.2014.495.x

In September 2013, the United Kingdom was the first country in Europe to launch a national herpes zoster (HZ) immunization programme, following implementation in the United States in 2006. The HZ vaccine has been offered to immunocompetent adults aged 70 years, with a targeted catch-up for 79 year olds.

HZ or shingles is characterized by a painful vesicular skin rash (Willison et al., 2010; Yawn and Gildea, 2013). Patients have reported pain ranging from moderate to severe (Bresse et al., 2013), with associated debilitating effects on mood, mobility, sleep and overall quality of life (Lukas et al., 2012). In Europe, incidence of shingles increases with advancing age and each year approximates 7–8 per 1000 in those over 50 years and 10 per 1000 in those over 80 years (Pinchinat et al., 2013). Post-herpetic neuralgia (PHN) is the main complication of shingles and is a long-lasting neuropathic pain that follows resolution of the initial rash. PHN can persist for months or years and is often very debilitating (Weinke et al., 2010; Lukas et al., 2012). In Scotland annually, approximately 7000 people aged 70 years and above develop shingles. Of these, between 700 and 1400 develop PHN and approximately 600 shingles-related hospitalization episodes are recorded per year.

The effect on quality of life for patients with PHN has been likened to that of myocardial infarction, major depressive illness and congestive heart failure (Bresse et al., 2013). For older patients, this can result in severe consequences, which can include loss of independence and a need for care interventions (Bresse et al., 2013). Strategies to reduce the incidence of PHN are urgently needed since effective treatment, with tolerable side effects is a major clinical challenge.

The HZ vaccine, Zostavax[®], has been shown to be well-tolerated, safe and effective (Oxman et al., 2005) and to reduce incidence of shingles and PHN in older adults by 51% and 66%, respectively (Bresse et al., 2013). Health economic models predicting the clinical and economic benefits found that vaccination of the elderly population was cost-effective (Sturesson and Pfeil, 2013). However, it should be highlighted that cost calculations undoubtedly underestimate the total

burden to society of PHN in terms of personal and societal burden.

With the introduction of this vaccine comes a unique epidemiological opportunity to monitor the benefits realization not only in terms of reduced shingles and PHN incidence but also on resultant quality of life. Although the vaccine has already been introduced in the United States, uptake has been low (18.3% for ≥70 year olds), with lack of awareness and education a potential factor (Javed et al., 2012). Uptake figures in the United Kingdom are expected to be much higher, in line with those for seasonal flu and pneumococcal vaccine uptake in those aged above 65 years (>70%). Information on uptake, effectiveness and associated economic benefits of HZ vaccine will therefore be important to inform policy makers, clinicians and the public of the benefits of this new national vaccination programme, which offers a novel strategy for pain prevention at the population level and will reduce needless suffering in older age.

H. Murdoch¹, A. Potts¹, L. Colvin², J.C. Cameron¹,
K.G. Pollock¹

¹ NHS National Services Scotland,
Health Protection Scotland, Glasgow, UK

² Lothian Chronic Pain Service and
University of Edinburgh, UK

Conflicts of interest

None declared.

References

- Bresse, X., Annemans, L., Proust, F., Bloch, K., Duru, G., Gauthier, A. (2013). Vaccination against herpes zoster and postherpetic neuralgia in France: A cost-effectiveness analysis. *Expert Rev Pharmacoeconomics Outcomes Res* 13, 393–406.
- Javed, S., Javed, F., Mays, R.M., Tying, S.K. (2012). Herpes zoster vaccine awareness among people ≥ 50 years of age and its implications on immunization. *Dermatol Online J* 18, 2.
- Lukas, K., Fdte, A., Bertrand, I. (2012). The impact of herpes zoster and post-herpetic neuralgia on quality of life: Patient-reported outcomes in six European countries. *Z Gesamte Wnt* 20, 441–451.
- Oxman, M.N., Levin, M.J., Johnson, G.R., Schumader, K.F., Straus, S.E., Gebb, L.D., Arbeit, R.D., Simberloff, M.S., Gershon, A.A., Davis, L.R., Weinberg, A., Boardman, K.D., Williams, H.M., Zhang, J.H., Peduzzi,

Risk factors for herpes zoster in a large cohort of unvaccinated older adults: a prospective cohort study.

Liu B¹, Heywood AE¹, Reekie J², Banks E³, Kaldor JM², McINTYRE P⁴, Newall AT¹, Macintyre CR¹.

Author information

Abstract

We analysed data from a prospective cohort of 255024 adults aged ≥ 45 years recruited from 2006-2009 to identify characteristics associated with a zoster diagnosis. Diagnoses were identified by linkage to pharmaceutical treatment and hospitalization records specific for zoster and hazard ratios were estimated. Over 940583 person-years, 7771 participants had a zoster diagnosis; 253 (3.3%) were hospitalized. After adjusting for age and other factors, characteristics associated with zoster diagnoses included: having a recent immunosuppressive condition [adjusted hazard ratio (aHR) 1.58, 95% confidence interval (CI) 1.32-1.88], female sex (aHR 1.36, 95% CI 1.30-1.43), recent cancer diagnosis (aHR 1.35, 95% CI 1.24-1.46), and severe physical limitation vs. none (aHR 1.33, 95% CI 1.23-1.43). The relative risk of hospitalization for zoster was higher for those with an immunosuppressive condition (aHR 3.78, 95% CI 2.18-6.55), those with cancer (aHR 1.78, 95% CI 1.24-2.56) or with severe physical limitations (aHR 2.50, 95% CI 1.56-4.01). The novel finding of an increased risk of zoster diagnoses and hospitalizations in those with physical limitations should prompt evaluation of the use of zoster vaccine in this population.

KEYWORDS: Herpes zoster; prospective study; risk factors; shingles; vaccination

PMID: 25592769 [PubMed - in process]

Full text links

CAMBRIDGE Journals Online
Full text

Save items

★ Add to Favorites

Similar articles

Herpes zoster vaccination and risk of subsequent herpes zoster

Cost-effectiveness of herpes zoster and post-herpetic neuralgia

Review Vaccines for herpes zoster in older adults [Cochrane Review]

Herpes zoster vaccination and recurrent herpes zoster

Epidemiology & Infection

Epidemiology & Infection

Welcome to Uni FERRARA

Università di Ferrara

Register for an Account



f Like 0 G+ 0

ARTICLE AUTHOR QUERY

JOURNAL INFORMATION

JOURNAL MENU

ARTICLE MENU

Home > Epidemiology & Infection > Volume 143 > Issue 13 > Risk factors for herpes zoster in a large cohort of unvaccinated older adults: a prospective cohort study

Epidemiology and Infection

Epidemiology and Infection / Volume 143 / Issue 13 / October 2015, pp 2871-2881

Copyright © Cambridge University Press 2015

DOI: <http://dx.doi.org/10.1017/S0950268814003653> (About DOI), Published online: 16 January 2015

New Content Alerts

Journal Widget



About Widget

Table of Contents - October 2015 - Volume 143, Issue 13

Author Index | Keyword Index

Buy This Article \$45.00 / £30.00
Rent This Article Now for 24 Hours \$5.99 / £3.99 / €4.49
Request Permissions

< Previous Abstract

Next Abstract >

Supplementary Materials



CrossMark

Altmetric 5

Original Papers

Varicella zoster

Risk factors for herpes zoster in a large cohort of unvaccinated older adults: a prospective cohort study

B. LIU^{a1a2 c1}, A. E. HEYWOOD^{a1}, J. REEKIE^{a3}, E. BANKS^{a2a4}, J. M. KALDOR^{a3}, P. McINTYRE^{a5}, A. T. NEWALL^{a1} and C. R. MACINTYRE^{a1}



UNIVERSITÀ DEGLI STUDI DI FERRARA

- EX LABORE FRUCTUS -

ATENEEO

DIPARTIMENTI

STUDIARE

RICERCA

INNOVAZIONE

INTERNATIONAL

ATENEEO

DIPARTIMENTI

S

Home / Ateneo

Ateneo

- ▶ Unife si presenta
- ▶ Organi Universitari
- ▶ Statuto e regolamenti
- ▶ Assicurazione di qualità
- ▶ Strutture
- ▶ Uffici
- ▶ **Biblioteche**
- ▶ Musei e archivi
- ▶ Servizi informatici



Chi **cerc@unife** trova: libri, periodici, CD e DVD collocati nelle biblioteche dell'Ateneo, riviste elettroniche, ebook e articoli full-text accessibili direttamente dai risultati della ricerca. [Per saperne di più.](#)

[cerc@](mailto:cerc@unife)

Accesso diretto alle risorse Unife:

Libri, riviste e multimedia - Biblioteche ferraresi

cerc@unife

Riviste elettroniche

Riviste cartacee

Banche dati specialistiche

Archivio Open Access Unife - Tesi di dottorato

Servizi interbibliotecari per utenti Unife

I servizi sono gestiti in modo centralizzato dall'Unità Servizi Interbibliotecari. Richiedi:

[libri](#)

[parti di libri](#)

[articoli di riviste](#)

non posseduti da biblioteche del Polo Ferrarese, autenticandoti con le credenziali di Ateneo e compilando il modulo proposto.

Prima di effettuare la richiesta, leggi le informazioni sul servizio

✉ Contatti

Coordinatore: [Dott.ssa Marina Contarini](#)

Informazioni generali:

Tel: +39 0532 974063

Fax: +39 0532 974066

Email: info.sba@unife.it

Assistenza informatica ai servizi bibliotecari:

Tel. Fax: +39 0532 974048 4065

Email: uib@unife.it

Segnalazioni e commenti

Invia le tue segnalazioni o commenti sui servizi dello SbA compilando l'[apposito form](#).



Il Sistema bibliotecario di Ateneo è un'Organizzazione con Sistema di Gestione Qualità certificato da Certiquality



Titolo

Categoria

Trova

Cerca la citazione

0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Altro












Titolo:

Inizia con Contiene

Vai

Numero totale di riviste: 4

[Passa alla visualizzazione dettagliata](#)

Titolo rivista	ISSN	Azioni
Epidemiology and Infection  [Visualizza altri dettagli per possibili ulteriori accessi al fulltext]	0950-2688	 
Infection control and hospital epidemiology  [Visualizza altri dettagli per possibili ulteriori accessi al fulltext]	0899-823X	 
Infection Ecology & Epidemiology 	2000-8686	 
The Southern African journal of epidemiology & infection	1015-8782	 

Fonte: [Epidemiology and Infection \[0950-2688\]](#)

Fulltext

Fulltext disponibile presso [JSTOR Life Sciences Collection](#)

Anno: Volume: Fascicolo: Pag. iniziale:

disponibile dal 1987 volume: 98 fascicolo:1 until (and including) 2009 volume: 137 fascicolo:12

Fulltext disponibile presso [PubMed Central](#)

Anno: Volume: Fascicolo: Pag. iniziale:

disponibile dal 1987 volume: 98 until (and including) 2008 volume: 136 fascicolo:12

Trova e-journal

Trova e-Book

Italiano

Titolo

Categoria

Trova

Cerca la citazione

Categoria

- Business, economia e gestione
- Chimica
- Diritto
- Fisica
- Ingegneria
- Ingegneria delle telecomunicazioni
- Medicina

Sotto-categoria

- Reproduzione e medicina riproduttiva (42)
- Salute pubblica (52)**
- Scienze mediche legali (20)
- Scienze veterinarie (69)
- Specialità mediche (37)
- Terapia medica (160)
- Tossicologia (1)

Vai

Trova e-journal

Trova e-Book

Italiano

Titolo Categoria Trova **Cerca la citazione**

titolo rivista Inizia con Contiene Titolo esatto

ISSN data

volume fascicolo pagina iniziale pagina finale

articolo

autore

cognome	nome	iniziali
<input type="text"/>	<input type="text"/>	<input type="text"/>

PMID DOI

[elimina](#)

Vai

Titolo: Risk factors for herpes zoster in a large cohort of unvaccinated older adults: a prospective cohort study.

Fonte: Epidemiology and Infection [0950-2688] Liu, B anno:2015 vol:143 iss:13 pag:2871 -81

Versione elettronica

Testo completo non disponibile

Document Delivery

Richiedi il documento a [Unità Servizi Interbibliotecari](#)

Altri accessi

Verifica la disponibilità [sul sito dell'editore](#)



- ▶ [Informazioni e reference](#)
- ▶ [Consultazione e prestito \(libri, riviste, multimedia\)](#)
- ▶ [Servizi online tramite il catalogo](#)
- ▶ [Servizi interbibliotecari per utenti Unife](#)
- ▶ [Servizi interbibliotecari per biblioteche esterne](#)
- ▶ [Richiesta di acquisto libri \(solo studenti e PTA Unife\)](#)
- ▶ [Consultazione tesi di laurea](#)
- ▶ [Riproduzioni e stampe](#)
- ▶ [Sale lettura e altre sale studio](#)
- ▶ [Seminari informativi sui servizi SbA](#)
- ▶ [Riviste cartacee - Fascicoli arrivati](#)
- ▶ [Regolamento attività e servizi](#)

Servizi interbibliotecari per utenti Unife

Questo servizio è riservato al personale strutturato, a contratto e agli studenti dell'Università di Ferrara ed è gestito in modo centralizzato dall'Unità Servizi Interbibliotecari.

Le richieste, non più di tre a settimana per ciascun tipo di documento, vanno effettuate compilando l'apposito modulo online accessibile tramite autenticazione con le credenziali rilasciate dall'Ateneo.

Il materiale viene richiesto per motivi di studio, ricerca, didattica

Prestito interbibliotecario

Attraverso il prestito interbibliotecario puoi ottenere, da altre biblioteche italiane o straniere, volumi non posseduti dal Polo bibliotecario ferrarese.

Alcuni tipi di documenti sono solitamente esclusi dal prestito interbibliotecario: enciclopedie, dizionari, bibliografie, tesi di laurea e di dottorato, tutte le opere antiche e fino ai primi anni del '900, nonché quelle di pubblicazione molto recente. La richiesta verrà presa in esame, normalmente, entro 3 giorni lavorativi.

Il volume richiesto viene consegnato all'utente dalla sua biblioteca Unife di riferimento indicativamente entro 15 giorni lavorativi. In caso contrario, l'utente verrà aggiornato via posta elettronica e/o telefono.

Procedi alla richiesta

Ricordati di chiudere il browser per terminare l'operazione

Document delivery di parti di libri

Attraverso il document delivery puoi ottenere, da altre biblioteche italiane o straniere, copie di contributi/capitoli contenuti in volumi non posseduti dal Polo bibliotecario ferrarese. La richiesta verrà presa in esame, normalmente, entro 3 giorni lavorativi. Le copie saranno conformi ai limiti previsti dalla normativa vigente sulla tutela del diritto d'autore. I documenti richiesti vengono inviati indicativamente entro 5 giorni lavorativi. In caso contrario, l'utente verrà aggiornato via posta elettronica e/o telefono.

Procedi alla richiesta

Ricordati di chiudere il browser per terminare l'operazione

Document delivery di articoli

Attraverso il document delivery puoi ottenere, da altre biblioteche italiane o straniere, copie di articoli tratti da periodici non posseduti dal Polo bibliotecario ferrarese. La richiesta verrà presa in esame, normalmente, entro 3 giorni lavorativi. Le copie saranno conformi ai limiti previsti dalla normativa vigente sulla tutela del diritto d'autore. Gli articoli richiesti vengono inviati indicativamente entro 5 giorni lavorativi. In caso contrario, l'utente verrà aggiornato via posta elettronica e/o telefono.

Procedi alla richiesta

Ricordati di chiudere il browser per terminare l'operazione





Università degli studi di Ferrara

Unità Servizi Interbibliotecari
Ripartizione biblioteche e musei

Richiesta di invio di articoli di periodici in fotocopia o in formato elettronico

Importante: i campi contrassegnati con * sono obbligatori

Dati relativi all'articolo

Autore articolo*	<input type="text"/>				
Titolo articolo*	<input type="text"/>				
Titolo periodico*	<input type="text"/>				
Anno di pubblicazione*	<input type="text"/>	Volume*	<input type="text"/>	Fascicolo*	<input type="text"/>
* Volume e/o Fascicolo					
Da pagina a pagina*	<input type="text"/>				

Dati del richiedente

Cognome e Nome	Silvia Lupi
Tipologia*	<input type="text"/>
Telefono*	<input type="text"/>
Codice Tessera Biblioteca	<input type="text"/>

Struttura di appartenenza*	<input type="text"/>
----------------------------	----------------------

Comunicazioni	<input type="text" value="Inserisci qui eventuali comunicazioni per gli operatori"/>
---------------	--

Data della richiesta 6/10/2015



Chi **cerc@unife** trova: libri, periodici, CD e DVD collocati nelle biblioteche dell'Ateneo, riviste elettroniche, ebook e articoli full-text accessibili direttamente dai risultati della ricerca. [Per saperne di più.](#)

 [cerc@](#)

Accesso diretto alle risorse Unife:

Libri, riviste e multimedia - Biblioteche ferraresi

[cerc@unife](#)

[Riviste elettroniche](#)

[Riviste cartacee](#)

[Banche dati specialistiche](#)

[Archivio Open Access Unife - Tesi di dottorato](#)

Servizi interbibliotecari per utenti Unife

I servizi sono gestiti in modo centralizzato dall'Unità Servizi Interbibliotecari. Richiedi:

[libri](#)

[parti di libri](#)

[articoli di riviste](#)

non posseduti da biblioteche del Polo Ferrarese, autenticandoti con le credenziali di Ateneo e compilando il modulo proposto.

Prima di effettuare la richiesta, leggi le informazioni sul servizio

✉ Contatti

Coordinatore: [Dott.ssa Marina Contarini](#)

Informazioni generali:

Tel: +39 0532 974063

Fax: +39 0532 974066

Email: info.sba@unife.it

Assistenza informatica ai servizi bibliotecari:

Tel. Fax: +39 0532 974048 4065

Email: uib@unife.it

Segnalazioni e commenti

Invia le tue segnalazioni o commenti sui servizi dello SbA compilando l'[apposito form](#).



Il Sistema bibliotecario di Ateneo è un'Organizzazione con Sistema di Gestione Qualità certificato da Certiquality

J Infect Dis. 2015 Oct 15;212(8):1222-31. doi: 10.1093/infdis/jiv244. Epub 2015 Jun 1.

Zoster Vaccine and the Risk of Postherpetic Neuralgia in Patients Who Developed Herpes Zoster Despite Having Received the Zoster Vaccine.

Tseng HF¹, Lewin B², Hales CM³, Sy LS¹, Harpaz R³, Bialek S³, Luo Y¹, Jacobsen SJ¹, Reddy K⁴, Huang PY², Zhang J⁴, Anand S¹, Bauer EM⁴, Chang J², Tartof SY¹.

acnp.unibo.it/catalogo/unife

Biblioteche dell'Università di Ferrara

vai a Ricerca Avanzata

Titolo ▾	<u>journal of infectious diseases</u>		
Ente Autore			
Anno		Cod. ISSN	
			Cerca

- 1 **The *Internet journal of infectious diseases** @ Posseduto cumulativo di ACNP: 2002-
 @Free Disponibile dal 2000.
- | | | | |
|-------------|--------|-----------|--------------|
| Biblioteche | Indici | Full Text | Doc Delivery |
|-------------|--------|-----------|--------------|
- 2 **The *Journal of infectious diseases** Posseduto cumulativo di ACNP: 1904-
 Infectious Diseases Society of America
- | | | | |
|-------------|--------|-----------|--------------|
| Biblioteche | Indici | Full Text | Doc Delivery |
|-------------|--------|-----------|--------------|
- 3 **The *Journal of infectious diseases** @ Posseduto cumulativo di ACNP: 1904-
- | | | | |
|-------------|--------|-----------|--------------|
| Biblioteche | Indici | Full Text | Doc Delivery |
|-------------|--------|-----------|--------------|

AN004



Centro di Ateneo di Documentazione - Polo Monte Dago - Università Politecnica delle Marche

Via Brecce Bianche, 60100 Ancona, tel: 0712204903, fax: 0712204902

Posseduto: 1974-2010;

Lacune: 1975;1977;

Collocazione: WC 275

Note: Sede di Torrette Tel 071 2206003 Fax 071 2206004 e-mail g.rossolini@univpm.it

Ultima revisione catalogo 2015

AQ003



Biblioteca di Medicina e Chirurgia e Psicologia - Università degli Studi dell'Aquila

P.le Salvatore Tommasi, 1 - Coppito, 67100 L'Aquila, tel: 0862-433311, fax: 0862-433313

Posseduto: 1996-2005;2008-2009;

Lacune: 2008-2009;

Collocazione: WC

Soggetti locali: WC

Ultima revisione catalogo 2015

BA091



Biblioteca. Dipartimento di Clinica Medica Immunologia e Malattie Infettive. Sezione di Microbiologia e Immunologia. Policlinico

p. Giulio Cesare, 70124 Bari, tel: 080-5478495, fax: 080-5478537

Posseduto: 1966-1992;

Lacune: 1966-1992;

Ultima revisione catalogo 2005

BA100



Biblioteca Centrale "Claudio Malaguzzi Valeri". Scuola di Medicina dell'Università degli Studi di Bari "Aldo Moro"

p.zza Giulio Cesare, 11, 70124 Bari, tel: 080 5478839, fax: 080 5478885

Posseduto: 1961-1981;1983-1998;2001-2003;

Lacune: 1976;1980;1993;1995-1998;

Collocazione: Pol Q.4

Ultima revisione catalogo 2015

BA103



Biblioteca. Dipartimento di Clinica Medica Immunologia e Malattie Infettive. Policlinico

p. Giulio Cesare, 70124 Bari, tel: 080-5478870;080-5478246, fax: 080-5478670

Posseduto: 1950-1951;1953;1955-1977;1979-1980;1982;1984-1985;1987-1988;1990-1995;2002-

Ultima revisione catalogo 2004

BA104



Biblioteca. Dipartimento di Medicina Interna e Medicina Pubblica. Sezione di Igiene. Policlinico

p. Giulio Cesare, 70124 Bari, tel: 080-5478480, fax: 080-5478472

Posseduto: 1969-2000;

Lacune: 1981;1993-1995;

Ultima revisione catalogo 2005

BA127



Biblioteca Dip. di Medicina veterinaria dell'Università degli studi di Bari "Aldo Moro"

Strada Provinciale per Casamassima Km 3, 70010 Valenzano, tel: 0805443965 ; 0805443963, fax: 0804679964

Posseduto: 1978-1994;

Lacune: LAC.

Collocazione: Arm 15 P124

Ultima revisione catalogo 2015

BG020



Biblioteca Medica G. Pasta. Ospedali Riuniti di Bergamo. Presidio di Assistenza Ospedaliera

Ig. Barozzi,1, Bergamo, tel: (035)269111

Posseduto: 1973-

Lacune: 1973-1974;

Dati non aggiornati dal 1988

B0028



Biblioteca Agenzia Sanitaria e Sociale Regionale Regione Emilia-Romagna

Viale Aldo Moro, 21, 40127 Bologna, tel: (051)5277178, fax: (051)5277053

Posseduto: 1990-2006;

Lacune: 1993;1995;

Collocazione: R WA 100 JOUOID

Ultima revisione catalogo 2015

B0303



Biblioteca Interdipartimentale di Medicina - Biblioteca Biomedica

Via Filippo Re 8, 40126 Bologna, tel: 051 2091701-2091908, fax: 051 2091702

Posseduto: 2000- Ultimi fascicoli

Lacune: 2006;

Collocazione: DepB m1; 2006-: Bal t1

Ultima revisione catalogo 2015

The *Journal of infectious diseases

Cerca tutte le biblioteche che possono offrire il servizio

B0303 Biblioteca Interdipartimentale di Medicina - Biblioteca Biomedica

Richiedi il documento attraverso <[il servizio ILL NILDE](#)> <[la posta elettronica](#)>

Posseduto 2000-

Lacune: 2006;

Collocazione: DepB m1; 2006-: Bal t1 [Elenco fascicoli disponibili](#)

Si inviano le fotocopie sulla base del reciproco scambio gratuito tra biblioteche (**NO privati, enti a scopo di lucro, case farmaceutiche etc.**). Le copie vengono fornite unicamente per scopo di studio e di ricerca, ad uso strettamente personale e nel rispetto della normativa vigente. Ogni copia in formato elettronico DEVE ESSERE CANCELLATA dopo averne tratto la stampa. La Biblioteca declina ogni responsabilità per un uso non conforme alla legge e alle norme stabilite dagli Editori. Per le richieste **compilare il modulo NILDE (preferito) in ogni sua parte, pena la inevasione della richiesta** oppure inviare e-mail all'indirizzo bibbiomed.docdel@unibo.it. Per le biblioteche non aderenti a Nilde, le condizioni per accedere al servizio DD sono: che esse debbono essere presenti con il loro posseduto in ACNP e con informazioni aggiornate. Per le monografie viene effettuato il prestito interbibliotecario con la esclusione dei libri di testo, opere di consultazione, collane e recenti acquisizioni. Per maggiori dettagli consultare il sito: [Servizi della Biblioteca](#). **Le richieste di materiale collocato nei fondi librari verranno evase, di norma, in 3 giorni lavorativi; sono sospese nei mesi di luglio e agosto.**

Search with limits

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

[Clear all](#)

[Show additional filters](#)

Summary ▾ 20 per page ▾ Sort by Most Recent ▾

Send to: ▾

Filters: [Manage Filters](#)

Search results

Items: 1 to 20 of 36766

<< First < Prev Page 1 of 1839 Next > Last >>

- [The impact of transoral robotic surgery on the overall treatment of oropharyngeal cancer patients.](#)
 1. Smith RV, Schiff BA, Garg M, Haigentz M. Laryngoscope. 2015 Oct 5. doi: 10.1002/lary.25534. [Epub ahead of print] PMID: 26436491
 2. [Epidemiological patterns of cervical human papillomavirus infection among women presenting for cervical cancer screening in North-Eastern Nigeria.](#) Manga MM, Fowotade A, Abdullahi YM, El-Nafaty AU, Adamu DB, Pindiga HU, Bakare RA, Osoba AO. Infect Agent Cancer. 2015 Oct 2;10:39. doi: 10.1186/s13027-015-0035-8. eCollection 2015. PMID: 26435733
 3. [Systematic review of economic evaluations of vaccination programs in mainland China: Are they sufficient to inform decision making?](#) Pan XF, Griffiths UK, Pennington M, Yu H, Jit M. Vaccine. 2015 Oct 1. pii: S0264-410X(15)01371-7. doi: 10.1016/j.vaccine.2015.09.081. [Epub ahead of print] Review. PMID: 26435189

New feature


Try the new Display Settings option - [Sort by Relevance](#)

Results by year



Related searches

[human papillomavirus infection](#)
[human papillomavirus vaccines](#)
[human papillomavirus type](#)
[human papillomavirus cervical cancer](#)
[quadrivalent human papillomavirus](#)

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

[Clear all](#)[Show additional filters](#) 

Summary ▾ 20 per page ▾ Sort by Most Recent ▾

Send to: ▾

Search results

Items: 1 to 20 of 7675 

<< First < Prev Page 1 of 384 Next > Last >>

- [Epidemiological patterns of cervical human papillomavirus infection among women presenting for cervical cancer screening in North-Eastern Nigeria.](#)
1. Manga MM, Fowotade A, Abdullahi YM, El-Nafaty AU, Adamu DB, Pindiga HU, Bakare RA, Osoba AO.
Infect Agent Cancer. 2015 Oct 2;10:39. doi: 10.1186/s13027-015-0035-8. eCollection 2015.
PMID: 26435733
- [Systematic review of economic evaluations of vaccination programs in mainland China: Are they sufficient to inform decision making?](#)
2. Pan XF, Griffiths UK, Pennington M, Yu H, Jit M.
Vaccine. 2015 Oct 1. pii: S0264-410X(15)01371-7. doi: 10.1016/j.vaccine.2015.09.081. [Epub ahead of print] Review.
PMID: 26435189
- [Type-Specific Human Papillomavirus Distribution in Invasive Squamous Cervical Carcinomas in Tunisia and Vaccine Impact.](#)
3. Ennaifer E, Salhi F, Laassili T, Fehri E, Alaya NB, Guizani I, Boubaker S.
Asian Pac J Cancer Prev. 2015;16(15):6769-72.
PMID: 26434909

[Show additional filters](#)

Article types

- Clinical Trial
- Review
- More ...

Text availability

- Abstract
- Free full text
- Full text

Publication dates

- 5 years
- 10 years
- Custom range...

Species

- Humans
- Other Animals

Languages

- English
- More ...

Sex

- Female
- Male

Ages

- Child: birth-18 years
- Infant: birth-23 months
- Adult: 19+ years
- Adult: 19-44 years
- Aged: 65+ years
- More ...

[Clear all](#)

[Show additional filters](#)

Choose specific types

Insert a precise range

Consider/exclude M-F

Choose particular age

Ages

- Child: birth-18 years
- Newborn: birth-1 month
- Infant: birth-23 months
- Infant: 1-23 months
- Preschool Child: 2-5 years
- Child: 6-12 years
- Adolescent: 13-18 years
- Adult: 19+ years
- Young Adult: 19-24 years
- Adult: 19-44 years
- Middle Aged + Aged: 45+ years
- Middle Aged: 45-64 years
- Aged: 65+ years
- 80 and over: 80+ years

Show

Article types

- Case Reports
- Clinical Trial
- Guideline
- Journal Article
- Meta-Analysis
- Multicenter Study
- Observational Study
- Review
- More ...

Text availability

- Abstract
- Free full text
- Full text

Publication dates

- 5 years
- 10 years
- Custom

Species

- Humans
- Other Animals

Languages

- English
- More ...

Sex

- Female
- Male

Ages

- 80 and over
- Adolescent
- Child: 6-12 years
- Child: birth-23 months
- Infant: 1-23 months
- Infant: birth-1 month

Article types

- Patient Education Handout
- Periodical Index
- Personal Narratives
- Portraits
- Practice Guideline
- Pragmatic Clinical Trial
- Published Erratum
- Randomized Controlled Trial
- Research Support, American Recovery and Reinvestment Act
- Research Support, N.I.H., Extramural
- Research Support, N.I.H., Intramural
- Research Support, Non-U.S. Gov't
- Research Support, U.S. Gov't, Non-P.H.S.
- Research Support, U.S. Gov't, P.H.S.
- Research Support, U.S. Government
- Retracted Publication
- Retraction of Publication
- Review

Show

Items: 1 to 20 of 2771

<< First < Prev Page 1 of 139 Next >

Ages clear

- ✓ Adolescent: 13-18 years
- ✓ Young Adult: 19-24 years
- More ...

1

Filters activated: Adolescent: 13-18 years, Young Adult: 19-24 years. [Clear all](#) to show 7675 items.

Items: 1 to 20 of 2598

<< First < Prev Page 1 of 130 Next > Last >>

Languages clear

- ✓ English
- ✓ Italian
- More ...

2

Filters activated: English, Italian, Adolescent: 13-18 years, Young Adult: 19-24 years. [Clear all](#) to show 7675 items.

Items: 1 to 20 of 556

<< First < Prev Page 1 of 28 Next > La

Article types clear

- ✓ Clinical Trial
- ✓ Meta-Analysis
- ✓ Review
- More ...

3

Filters activated: Clinical Trial, Meta-Analysis, Review, English, Italian, Adolescent: 13-18 years, Young Adult: 19-24 years. [Clear all](#) to show 7675 items.

Items: 1 to 20 of 259

<< First < Prev Page 1 of 13 Next >

Publication dates clear

- ✓ 5 years
- 10 years
- Custom range...

4

Filters activated: Clinical Trial, Meta-Analysis, Review, published in the last 5 years, English, Italian, Adolescent: 13-18 years, Young Adult: 19-24 years. [Clear all](#) to show 7675 items.

Items: 1 to 20 of 105

<< First < Prev Page 1 of 6 Next > Last >>

Text availability clear

- Abstract
- ✓ Free full text
- Full text

5

Filters activated: Clinical Trial, Meta-Analysis, Review, Free full text, published in the last 5 years, English, Italian, Adolescent: 13-18 years, Young Adult: 19-24 years. [Clear all](#) to show 7675 items.

Items: 1 to 20 of 25

<< First < Prev Page 1 of 2 Next > Last >>

Sex clear

- Female
- ✓ Male

6

Filters activated: Clinical Trial, Meta-Analysis, Review, Free full text, published in the last 5 years, English, Italian, Male, Adolescent: 13-18 years, Young Adult: 19-24 years. [Clear all](#) to show 7675 items.

Search results

Items: 1 to 20 of 25 Selected: 10

i Filters activated: Clinical Trial, Meta-Analysis, Review, Free full text, published Italian, Male, Adolescent: 13-18 years, Young Adult: 19-24 years. [Clear all filters](#)

[Long-term study of a quadrivalent human papillomavirus vaccine.](#)

1. Ferris D, Samakoses R, Block SL, Lazcano-Ponce E, Restrepo JA, R Chatterjee A, Iversen OE, Sings HL, Shou Q, Sausser TA, Saah A. *Pediatrics*. 2014 Sep;134(3):e657-65. doi: 10.1542/peds.2013-4144. Epub 2014 Aug 18. PMID: 25136050 **Free Article** [Similar articles](#)

[Knowledge of human papillomavirus \(HPV\) infection, cervical cancer, and HPV vaccine and its correlates among medical students in Southwest China: a multi-center cross-sectional survey.](#)

2. Wen Y, Pan XF, Zhao ZM, Chen F, Fu CJ, Li SQ, Zhao Y, Chang H, Xue QP, Yang CX. *Asian Pac J Cancer Prev*. 2014;15(14):5773-9. PMID: 25081700 **Free Article** [Similar articles](#)

[Increasing provision of adolescent vaccines in primary care: a randomized controlled trial.](#)

3. Gilkey MB, Dayton AM, Moss JL, Sparks AC, Grimshaw AH, Bowling JM, Brewer NT. *Pediatrics*. 2014 Aug;134(2):e346-53. doi: 10.1542/peds.2013-4257. Epub 2014 Jul 7. PMID: 25002671 **Free PMC Article** [Similar articles](#)

[Human papillomavirus vaccine awareness, acceptability, and decision-making factors among Chinese college students.](#)

4. Wang SM, Zhang SK, Pan XF, Ren ZF, Yang CX, Wang ZZ, Gao XH, Li M, Zheng QQ, Ma W, Zhao FH, Qiao YL, Sivasubramaniam P. *Asian Pac J Cancer Prev*. 2014;15(7):3239-45. PMID: 24815477 **Free Article** [Similar articles](#)

[Educational interventions to increase HPV vaccination acceptance: a systematic review.](#)

5. Fu LY, Bonhomme LA, Cooper SC, Joseph JG, Zimet GD. *Vaccine*. 2014 Apr 7;32(17):1901-20. doi: 10.1016/j.vaccine.2014.01.091. Epub 2014 Feb 14. **Review**. PMID: 24530401 **Free PMC Article** [Similar articles](#)

Choose Destination

- File
- Collections
- Order
- Citation manager
- Clipboard
- E-mail
- My Bibliography

Add 10 items.

Search details

```
((("humans"[MeSH Terms] AND "human papillomavirus"[All Fields]) OR "human papillomavirus"[All Fields]) AND ("papillomaviridae"[MeSH Terms] OR "papillomaviridae"[All Fields] OR "papillomavirus"[All Fields]))
```

Recent Activity

- human papillomavirus ((Clinical Trial[ptyp])
- human papillomavirus ((Clinical Trial[ptyp])
- human papillomavirus ((Clinical Trial[ptyp])
- human papillomavirus ((Clinical Trial[ptyp])
- human papillomavirus ((Clinical Trial[ptyp])

The Clipboard feature stores selected citations from one or more searches for eight hours.

Summary 20 per page Sort by Most Recent

Send to:

Clipboard: 10 items

Filters: [Manage Filters](#)

Search results

Items: 1 to 20 of 25

<< First < Prev Page 1 of 2 Next > Last >>

Filters activated: Clinical Trial, Meta-Analysis, Review, Free full text, published in the last 5 years, English, Italian, Male, Adolescent: 13-18 years, Young Adult: 19-24 years. [Clear all](#) to show 7675 items.

10 items were added to the Clipboard.

Clipboard items will be lost after eight hours of inactivity. The maximum number of Clipboard items is 500.

[Long-term study of a quadrivalent human papillomavirus vaccine.](#)

1. Ferris D, Samakoses R, Block SL, Lazcano-Ponce E, Restrepo JA, Reisinger KS, Mehlsen J, Chatterjee A, Iversen OE, Sings HL, Shou Q, Sausser TA, Saah A. Pediatrics. 2014 Sep;134(3):e657-65. doi: 10.1542/peds.2013-4144. Epub 2014 Aug 18.

PMID: 25136050 [Free Article](#)[Similar articles](#)

[Knowledge of human papillomavirus \(HPV\) infection, cervical cancer, and HPV vaccine and its correlates among medical students in Southwest China: a multi-center cross-sectional survey.](#)

2. Wen Y, Pan XF, Zhao ZM, Chen F, Fu CJ, Li SQ, Zhao Y, Chang H, Xue QP, Yang CX. Asian Pac J Cancer Prev. 2014;15(14):5773-9.

PMID: 25081700 [Free Article](#)[Similar articles](#)

[Increasing provision of adolescent vaccines in primary care: a randomized controlled trial.](#)

3. Gilkey MB, Dayton AM, Moss JL, Sparks AC, Grimshaw AH, Bowling JM, Brewer NT. Pediatrics. 2014 Aug;134(2):e346-53. doi: 10.1542/peds.2013-4257. Epub 2014 Jul 7.

PMID: 25002671 [Free PMC Article](#)[Similar articles](#) [Item in clipboard](#)

New feature

Try the new Display Settings option - [Sort by Relevance](#)

Find related data

Database:

Search details

```
((("humans"[MeSH Terms] OR "humans"[All Fields] OR "human"[All Fields]) AND ("papillomaviridae"[MeSH Terms] OR "papillomaviridae"[All Fields] OR "papillomavirus"[All Fields])) AND
```

[See more...](#)

Recent Activity

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

human papillomavirus AND vaccine AND ((Clinical Trial[ptyp] OR Me... (25) PubMed

human papillomavirus AND vaccine AND

Clipboard

Items: 10 [Remove all items](#)

- [Educational interventions to increase HPV vaccination acceptance: a systematic review.](#)
 1. Fu LY, Bonhomme LA, Cooper SC, Joseph JG, Zimet GD.
Vaccine. 2014 Apr 7;32(17):1901-20. doi: 10.1016/j.vaccine.2014.01.091. Epub 2014 Feb 14. Review.
PMID: 24530401 [Free PMC Article](#)
[Similar articles](#) [Remove from clipboard](#)

- [Efficacy of quadrivalent HPV vaccine against HPV Infection and disease in males.](#)
 2. Giuliano AR, Palefsky JM, Goldstone S, Moreira ED Jr, Penny ME, Aranda C, Vardas E, Moi H, Jessen H, Hillman R, Chang YH, Ferris D, Rouleau D, Bryan J, Marshall JB, Vuocolo S, Barr E, Radley D, Haupt RM, Guris D.
N Engl J Med. 2011 Feb 3;364(5):401-11. doi: 10.1056/NEJMoa0909537. Erratum in: N Engl J Med. 2011 Apr 14;364(15):1481.
PMID: 21288094 [Free PMC Article](#)
[Similar articles](#) [Remove from clipboard](#)

- [Safety and reactogenicity of a quadrivalent human papillomavirus \(types 6, 11, 16, 18\) L1 viral-like-particle vaccine in older adolescents and young adults.](#)
 3. Moreira ED Jr, Palefsky JM, Giuliano AR, Goldstone S, Aranda C, Jessen H, Hillman RJ, Ferris D, Coutlee F, Vardas E, Marshall JB, Vuocolo S, Haupt RM, Guris D, Garner EI.
Hum Vaccin. 2011 Jul;7(7):768-75. doi: 10.4161/hv.7.7.15579. Epub 2011 Jul 1.
PMID: 21712645 [Free PMC Article](#)
[Similar articles](#) [Remove from clipboard](#)

- [Immunogenicity of the quadrivalent human papillomavirus \(type 6/11/16/18\) vaccine in males 16 to 26 years old.](#)
 4. Hillman RJ, Giuliano AR, Palefsky JM, Goldstone S, Moreira ED Jr, Vardas E, Aranda C, Jessen H, Ferris DG, Coutlee F, Marshall JB, Vuocolo S, Haupt RM, Guris D, Garner EI.
Clin Vaccine Immunol. 2012 Feb;19(2):261-7. doi: 10.1128/CVI.05208-11. Epub 2011 Dec 7.
PMID: 22155768 [Free PMC Article](#)
[Similar articles](#) [Remove from clipboard](#)

- [Advertisements promoting human papillomavirus vaccine for adolescent boys: does source matter?](#)
 5. Pepper JK, Reiter PL, McRee AL, Brewer NT.
Sex Transm Infect. 2012 Jun;88(4):264-5. doi: 10.1136/sextrans-2011-050197. Epub 2012 Jan 4.
PMID: 22223814 [Free PMC Article](#)
[Similar articles](#) [Remove from clipboard](#)



Advertisements promoting human papillomavirus vaccine for adolescent boys: does source matter?Pepper JK¹, Reiter PL, McRee AL, Brewer NT.⊕ **Author information****Abstract**

OBJECTIVES: Many parents recall hearing of human papillomavirus (HPV) vaccine through drug company advertisements. This study sought to examine whether parents accurately recall the source (ie, sponsor) of advertisements promoting HPV vaccine and the impact of drug company advertisements.

METHODS: A U.S. national sample of 544 parents of adolescent boys aged 11-17 participated in an online between-subjects experiment. Parents viewed an advertisement encouraging HPV vaccination for boys with a logo from a randomly assigned source. Parents rated trust, likability and motivation for vaccination while viewing the advertisement and later indicated who they believed sponsored it.

RESULTS: Nearly half (43%) of parents who viewed a hypothetical advertisement containing a logo incorrectly identified the advertisement source. More parents correctly identified the source of drug company advertisements than advertisement from other sources (62% vs. 25%, OR 4.93, 95% CI 3.26 to 7.46). The majority of parents who saw a logo-free advertisement believed a drug company created it (60%). Among parents who correctly identified the advertisement source, drug company advertisements decreased motivation to vaccinate their sons, an association mediated by reduced liking of and trust in the advertisements.

CONCLUSIONS: Parents were more accurate in identifying drug company advertisements, primarily because they tended to assume any advertisement was from a drug company. Public health organisations may need to take special measures to ensure their messages are not perceived as sponsored by drug companies.

PMID: 22223814 [PubMed - indexed for MEDLINE] PMCID: PMC3689653 **Free PMC Article****Full text links****Save items**

☆ Add to Favorites ▾

Similar articles

Evaluating associations between sources of information, knowledge of the human papillomavirus, and hum [Vaccine. 2012]

Parents' and sons' beliefs in sexual disinhibition after human papillomavirus vaccination [Sex Transm Dis. 2012]

Disparities in how parents are learning about human papillomavirus vaccination [Cancer Epidemiol Biomarkers Prev. 2012]

Review Improving adolescent health: focus on HPV vaccine acceptance [J Adolesc Health. 2012]**Review** Acceptability of human papillomavirus vaccine for males: a review [J Adolesc Health. 2012]**HHS Public Access**Author manuscript
Peer-reviewed and accepted for publication

About author manuscripts

Submit a manuscript

Sex Transm Infect. Author manuscript; available in PMC 2013 Jun 21.

Published in final edited form as:

Sex Transm Infect. 2012 Jun; 88(4): 264-265.

Published online 2012 Jan 4. doi: 10.1136/sextrans-2011-050197

PMCID: PMC3689653

NIHMSID: NIHMS477460

PubReader format:
click here to try**Formats:**

Article | PubReader | ePub (beta) | PDF (349K) | Citation

Share

Facebook Twitter Google+

Save items

☆ Add to Favorites ▾

Similar articles in PubMed

Evaluating associations between sources of information, knowledge of the human papillomavirus, and hum [Vaccine. 2012]

Parents' and sons' beliefs in sexual disinhibition after human

Advertisements promoting HPV vaccine for adolescent males: Does source matter?Jessica K. Pepper,¹ Paul L. Reiter,^{2,3} Annie-Laurie McRee,¹ and Noel T. Brewer^{1,4}

Author information ► Copyright and License information ►

The publisher's final edited version of this article is available at *Sex Transm Infect*

See other articles in PMC that cite the published article.

Published in final edited form as:

Sex Transm Infect. 2012 June ; 88(4): 264–265. doi:10.1136/sextrans-2011-050197.

Advertisements promoting HPV vaccine for adolescent males: Does source matter?

Jessica K. Pepper¹, Paul L. Reiter^{2,3}, Annie-Laurie McRee¹, and Noel T. Brewer^{1,4}

¹Gillings School of Global Public Health, University of North Carolina

²Division of Cancer Prevention and Control, College of Medicine, The Ohio State University

³Comprehensive Cancer Center, The Ohio State University

⁴Lineberger Comprehensive Cancer Center, University of North Carolina

Abstract

Objectives—Many parents recall hearing of HPV vaccine through drug company advertisements. We sought to examine whether parents accurately recall the source (i.e., sponsor) of ads promoting HPV vaccine and the impact of drug company ads.

Methods—A U.S. national sample of 544 parents of adolescent males ages 11–17 participated in an online between-subjects experiment. Parents viewed an advertisement encouraging HPV vaccination for boys with a logo from a randomly assigned source. Parents rated trust, likability, and motivation for vaccination while viewing the ad and later indicated who they believed sponsored it.

Results—Nearly half (43%) of parents who viewed a hypothetical advertisement containing a logo incorrectly identified the ad source. More parents correctly identified the source of drug company ads than ads from other sources (62% vs. 25%, OR 4.93, 95% CI 3.26–7.46). The majority of parents who saw a logo-free ad believed a drug company created it (60%). Among parents who correctly identified the ad source, drug company ads decreased motivation to vaccinate their sons, an association mediated by reduced liking of and trust in the ads.

Conclusions—Parents were more accurate in identifying drug company ads, primarily because they tended to assume any ad was from a drug company. Public health organizations may need to take special measures to ensure their messages are not perceived as sponsored by drug companies.

Corresponding author during peer review: Jessica K. Pepper, MPH, UNC Gillings School of Global Public Health, Dept. of Health Behavior and Health Education, 307 Rosenau Hall, CB 7440, Chapel Hill, NC 27599-7440, Tel: 617-529-7107, Fax: 919-966-2921, jkadis@unc.edu. Corresponding author for published manuscript: Noel T. Brewer, PhD, UNC Gillings School of Global Public Health, Dept. of Health Behavior and Health Education, 325 Rosenau Hall, CB 7440, Chapel Hill, NC 27599-7440, Tel: 919-966-3282, Fax: 919-966-2921, ntb1@unc.edu.

Annie-Laurie McRee, DrPH, UNC Gillings School of Global Public Health, Chapel Hill, NC
Paul L. Reiter, PhD, Division of Cancer Prevention and Control, College of Medicine; Comprehensive Cancer Center, The Ohio State University, Columbus, OH

Contributors: Jessica K. Pepper, Paul L. Reiter, Annie-Laurie McRee, and Noel T. Brewer all participated in the development of the survey and data analysis. Jessica K. Pepper drafted the initial manuscript. The other coauthors provided significant input on all subsequent revisions. All authors had full access to all of the data in the study and can take responsibility for the integrity of that data and the accuracy of the data analysis.

Competing Interests: A research grant to Noel T. Brewer and Paul L. Reiter from Merck Sharp & Dohme Corp. funded the study. Merck Sharp & Dohme Corp. played no role in the study design, planning, implementation, analysis, or reporting of the findings. Noel T. Brewer has also received grants and/or honoraria from GlaxoSmithKline and Merck Sharp & Dohme Corp. Paul L. Reiter has not received honoraria or consulting fees from these companies.