REAL TIME EBM: A THERAPY QUESTION
First:
What I learned at Tyler’s
Now, a real question

- Dr. Y is a 63 year old woman with a history of osteoarthritis and hip replacement in 2012.
- She emails me this week asking: “Do I need antibiotic prophylaxis for my upcoming colonoscopy, due to the new prosthesis? And, for that matter, do I need antibiotic prophylaxis for dental work?”
- Hmm. Good question!
What’s the PICO?

- **P**: patients with prosthetic joints going for GI or dental procedure
- **I**: antibiotic prophylaxis
- **C**: placebo
- **O**: prosthetic joint infection

- **T**: Therapy/intervention question
- **T**: RCT
Search the Cochrane Library

Search Term: joint prosthesis

Notice to all users: The 2013 MeSH Thesaurus upload is complete, however all CENTRAL, DARE, NHS-EED and HTA articles still contain 2012 MeSH headings. Until these files are reprocessed, a slight difference in some search counts for these databases is possible, when searching with MeSH headings that have been newly introduced, replaced or had code changes with the latest MeSH update. We are actively working to correct these files. For further information click here.
Search

Title, Abstract, Keywords

joint prosthesis

Search Manager

Medical Terms (MeSH)

Go

Save

Browse

Add to Search Manager

Cochrane Database of Systematic Reviews: Issue 2 of 12, February 2013

There are 13 results from 7773 records for your search on 'joint prosthesis in title abstract keywords in Cochrane Reviews'

Sort by: Relevance

Select all  |  Export all  |  Export selected

- Arthroplasties (with and without bone cement) for proximal femoral fractures in adults
  Martyn J Parker, Kurlinchi Selvan Gurusamy and Shin Azegami
  June 2010

- Mobile bearing vs fixed bearing prostheses for total knee arthroplasty for post-operative functional status in patients with osteoarthritis and rheumatoid arthritis
  Wilco Jacobs, Patricia O Anderson, Jacques van Limbeek and Ate AB Wymenga
  July 2008

- Surgical interventions for the rheumatoid shoulder
  Anne Christie, Hanne Dagfinrud, Kari Engen Matre, Hilde Iren Flaatten, Hanne Ringen Osnes and Kåre Birger Hagen
  January 2010

- Cemented, cementless or hybrid fixation options in total knee arthroplasty for osteoarthritis and other non-traumatic diseases
  Gilberto Yoshinobu Nakama, Maria Stella Peccin, Gustavo JM Almeida, Ozório de Almeida Lira Neto, Antônio AB Queiroz and Ricardo Dizioli Navarro
  October 2012
Step 1: Show me the DETAILS!
joint prosthesis AND antimicrobial prophylaxis
Better MeSH terms...

1. Prevention and control [Subheading]
   Used with disease headings for increasing human or animal resistance against disease (e.g., immunization), for control of transmission agents, for prevention and control of environmental hazards, or for prevention and control of social factors leading to disease. It includes preventive measures in individual cases.
   Year introduced: 1966

2. Post-Exposure Prophylaxis
   The prevention of infection or disease following exposure to a pathogen.
   Year introduced: 2010

3. Antibiotic Prophylaxis
   Use of antibiotics before, during, or after a diagnostic, therapeutic, or surgical procedure to prevent infection complications.
   Year introduced: 1996

4. Dental Prophylaxis
   Treatment for the prevention of periodontal diseases or other dental diseases by the cleaning of the teeth in the dental office using the procedures of DENTAL SCALING and DENTAL POLISHING. The treatment may include plaque detection, removal of supra- and subgingival plaque and calculus, application of caries-preventing agents, checking of restorations and prostheses and correcting overhanging margins and proximal contours of restorations, and checking for signs of food impaction.
   Year introduced: 1965
PubMed Advanced Search Builder

Use the builder below to create your search

Edit

Builder

All Fields

AND

Show index list

Search or Add to history

History

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Search (4) OR (5)
Search dental prophylaxis
Search antibiotic prophylaxis
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Search joint prosthesis AND antimicrobial prophylaxis

Items found: 21638, 9707, 13958, 54211, 747
Time: 09:34:05, 09:33:04, 09:32:45, 09:32:28, 09:28:34
Infection prevention methodologies for lower extremity total joint arthroplasty.
   PMID: 23480090 [PubMed - as supplied by publisher]
   Related citations

Cost analysis of peri-operative antibiotic administration in total knee arthroplasty.
   PMID: 23451437 [PubMed - in process]
   Related citations

High Infection Rate Outcomes in Long-bone Tumor Surgery with Endoprosthetic
3. Reconstruction in Adults: A Systematic Review.
   Racano A, Pazionis T, Farrokhnyar F, Dehesi B, Ghert M.
   Clin Orthop Relat Res. 2013 Feb 12. [Epub ahead of print]
   PMID: 23404421 [PubMed - as supplied by publisher]
   Related citations

Rothia prosthetic knee joint infection.
4. Trivedi MN, Malhotra P.
   [Epub ahead of print]
   PMID: 23357688 [PubMed - as supplied by publisher]
   Related citations

A randomized control trial between fosfomycin and cefuroxime as the antibiotic
5. prophylaxis in knee arthroplasty.
   Chareancholvanich K, Udomkiat P, Waikakul S.
Rosengren H, Dixon A.
PMID: 20000873 [PubMed - indexed for MEDLINE]
Related citations

Kuong EE, Ng FY, Yan CH, Fang CX, Chiu PK.
Related citations

Tong D, Theis JC.
PMID: 18791627 [PubMed - indexed for MEDLINE]
Related citations

17. Antibiotic prophylaxis for wound infections in total joint arthroplasty: a systematic review.
AlBuhaian B, Hind D, Hutchinson A.
PMID: 18591602 [PubMed - indexed for MEDLINE]
Related citations

Uçkay I, Pittet D, Bernard L, Lew D, Perrier A, Peter R.
PMID: 18591588 [PubMed - indexed for MEDLINE]
Related citations
Antibiotic prophylaxis before invasive dental procedures in patients with arthroplasties of the hip and knee

More than a million hip replacements are carried out each year worldwide, and the number of other artificial joints inserted is also rising, so that infections associated with arthroplasties have become more common. However, there is a paucity of literature on infections due to haematogenous seeding following dental procedures. We reviewed the published literature to establish the current knowledge on this problem and to determine the evidence for routine antibiotic prophylaxis prior to a dental procedure.

We found that antimicrobial prophylaxis before dental interventions in patients with artificial joints lacks evidence-based information and thus cannot be universally recommended.

Joint prostheses are one of the remarkable advances of modern medicine. In 1936, the first joint replacement, a total hip replacement, was performed. Over 70 years later, more than a million hip replacements are carried out annually worldwide. Apart from loosening of the components or dislocation, infection is the most common complication. Although the overall risk has been reduced to < 1% for hip and < 2% for knee replacements, infection is observed more often owing to the sheer volume of the following terms ‘dental’, ‘joint replacement’, ‘bacteraemia’, ‘infection’, ‘prosthesis’, ‘arthroplasty’, ‘dentist’ and ‘prophylaxis’, and paired in a second step with the terms ‘recommendations’ and ‘guidelines’. Bibliographies of relevant articles were hand searched to retrieve further papers. Case reports and references to abstracts of conference presentations were also included. Animal studies and in vitro experiments were excluded.