

¿Nos ayuda PUBMED en la práctica clínica?

CURSO: “LA INFORMACIÓN MÉDICA EN LA ERA DE LAS TICS”

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Unidad 6

Cursos AAOC - 2010

¿Nos ayuda PUBMED en la práctica clínica?

- ¿Cómo utilizar de manera sencilla, sensata e inteligente nuestras búsquedas bibliográficas?
- ¿Es posible acceder fácilmente a bibliografía específica sobre un tema muy particular, como por ejemplo un caso clínico concreto?

¿Nos ayuda PUBMED en la práctica clínica?

- Paciente de 67 años de edad, fumadora de 6 cigarrillos/día Diagnosticada previamente de Cáncer de mama (T2 N0 M0) tratado mediante cirugía asociada a quimioterapia y radioterapia. Debido a la progresión metastática del carcinoma de mama se inició el tratamiento con bisfosfonatos (pamidronato a dosis de 90 mg e.v. 20 ciclos). Tras los primeros 9 ciclos de pamidronato es cuando la paciente es remitida a nuestra consulta de Cirugía Oral y Maxilofacial por parte de su oncólogo por sensación de quemazón y dolor gingival difuso con gingivorragias habituales, presentando una lesión ulcerosa de 5 mm de diámetro en el borde lateral de hemilengua derecha muy dolorosa.

¿Nos ayuda PUBMED en la práctica clínica?

- **Osteonecrosis maxilar y bisfosfonatos**

¿Nos ayuda PUBMED en la práctica clínica?

- **Utilización de PUBMED**



Operadores booleanos

Operadores booleanos

- El tipo de dato **lógico** o *booleano* es en computación aquel que puede representar valores de lógica binaria, esto es, valores que representen *falso* o *verdadero*. Se utiliza normalmente en la programación, estadística, electrónica, matemáticas (álgebra booleana), etc..

Wikipedia

Operadores booleanos

- Conforman lo que es conocido como **“lenguaje de interrogación”**
- Funcionan, según los criterios que definamos, al ser intercalados entre las palabras claves con las que ordenaremos al buscador que realice la búsqueda pretendida

Operadores booleanos

- Reconoceremos dos tipos de "operadores":
 - a) los que utilizaremos en búsquedas simples y
 - b) los que son útiles para las búsquedas complejas.
 - A su vez, estos últimos permiten reconocer tres tipos diferentes:
 - operadores booleanos lógicos
 - operadores booleanos de complemento, y
 - operadores de exactitud
 - Una búsqueda avanzada e "inteligente" puede implicar el uso de varios de estos operadores, en forma combinada.

Operadores para búsquedas simples

- Estos operadores en general no son recomendables para nuestras búsquedas en Medline
- Como se indicará, es preferible SIEMPRE la utilización de los operadores booleanos lógicos.
- Pueden servirnos, en cambio para realizar búsquedas generales en un buscador de páginas web (Yahoo, Altavista, etc)
- Nos referimos a los signos + , - , * y ""

MEDLINE

- PubMed, The National Library of Medicine:
- <http://www.ncbi.nlm.nih.gov/sites/entrez?db=pubmed>

OPERADORES BOOLEANOS LOGICOS

- **AND:** concatena las palabras o la secuencia de palabras: osteonecrosis AND bisphosphonate hallará citas que contengan ambos términos; por ello es una búsqueda acotada y el resultado obtenido ciñe los hallazgos a todos aquellos de osteonecrosis que contengan el término "bisphosphonate".
- **NOT:** excluye la palabra que se halla a continuación osteonecrosis NOT bisphosphonate hará una búsqueda sobre osteonecrosis, pero excluirá aquellos trabajos que contengan la palabra "bisphosphonate".
- **OR:** se usa para hallar documentos que contengan una de las dos palabras o ambas osteonecrosis or bisphosphonate

Operadores booleanos de complemento y de exactitud

- Son utilizados para realizar búsquedas muy concretas, pero no en Medline
- .Por ejemplo, el operador de complemento \sim , sirve para mejorar los resultados de la búsqueda cuando fue empleado el operador **AND** ya que devuelve un listado de citas que contienen ambas palabras siempre que no estén separadas por más de 80 caracteres o 10 palabras.
- En algunos buscadores se emplea también la palabra **NEAR**.



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- 1: [Bisphosphonate-associated osteonecrosis of the jaw: what do we currently know? A survey of knowledge given in the recent literature.](#)
Rustemeyer J, Bremerich A.
Clin Oral Investig. 2009 Jun 4. [Epub ahead of print]
PMID: 19495814 [PubMed - as supplied by publisher]
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- 2: [Osteonecrosis of the jaw induced by oral administration of bisphosphonates in Asian population: five cases.](#)
Park W, Kim NK, Kim MY, Rhee YM, Kim HJ.
Osteoporos Int. 2009 May 30. [Epub ahead of print]
PMID: 19484166 [PubMed - as supplied by publisher]
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- 3: [Paget's disease of bone and osteonecrosis.](#)
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Dent Update. 2009 Apr;36(3):166-8, 171-2.
PMID: 19480105 [PubMed - in process]

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All: 9371 Review: 1012

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- 1: [Mouse macrophages primed with alendronate down-regulate monocyte chemoattractant protein-1 \(MCP-1\) and macrophage inflammatory protein-1alpha \(MIP-1alpha\) production in response to Toll-like receptor \(TLR\) 2 and TLR4 agonist via Smad3 activation.](#)
 Masuda T, Deng X, Tamai R.
 Int Immunopharmacol. 2009 Jun 3. [Epub ahead of print]
 PMID: 19501197 [PubMed - as supplied by publisher]
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- 2: [\[Diagnostics of joint pain in children--controversies\]](#)
 Tuskiewicz-Misztal E, Postepski J.
 Przegł Lek. 2009;66(1-2):72-5. Polish.
 PMID: 19485261 [PubMed - in process]
[Related Articles](#)
- 3: [The Anatomical Graduated Component total knee replacement: a long-term evaluation with 20-year survival analysis.](#)
 Ritter MA.
 J Bone Joint Surg Br. 2009 Jun;91(6):745-9.



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- 1: [Efficacy and safety of risedronate 150 mg once a month in the treatment of postmenopausal osteoporosis.](#)
Rackoff P.
Clin Interv Aging. 2009;4(1):207-14. Epub 2009 May 14.
PMID: 19503783 [PubMed - in process]
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- 2: [Mouse macrophages primed with alendronate down-regulate monocyte chemoattractant protein-1 \(MCP-1\) and macrophage inflammatory protein-1alpha \(MIP-1alpha\) production in response to Toll-like receptor \(TLR\) 2 and TLR4 agonist via Smad3 activation.](#)
Masuda T, Deng X, Tamai R.
Int Immunopharmacol. 2009 Jun 3. [Epub ahead of print]
PMID: 19501197 [PubMed - as supplied by publisher]
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- 3: [In Situ Cross-Linkable High Molecular Weight Hyaluronan-Bisphosphonate Conjugate for Localized Delivery and Cell-Specific Targeting: A Hydrogel Linked Prodrug Approach.](#)
Varghese OP, Sun W, Hilborn J, Ossipov DA.

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- 1: [Paget's disease of bone and osteonecrosis.](#)
 Seehra J, Sloan P, Oliver RJ.
 Dent Update. 2009 Apr;36(3):166-8, 171-2.
 PMID: 19480105 [PubMed - in process]
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- 2: [Bevacizumab-associated osteonecrosis of the jaw.](#)
 Greuter S, Schmid F, Ruhstaller T, Thuerlimann B.
 Ann Oncol. 2008 Dec;19(12):2091-2. Epub 2008 Oct 31. No abstract available.
 PMID: 18977851 [PubMed - indexed for MEDLINE]
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- 3: [Oral and maxillofacial pathology in three dimensions.](#)
 Guttenberg SA.
 Dent Clin North Am. 2008 Oct;52(4):843-73, viii.
 PMID: 18805232 [PubMed - indexed for MEDLINE]
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¿Qué enseñanza nos queda?

- **NO EXISTE** un resultado que sea el **CORRECTO**.
- Existen aquellos que se aproximarán más a nuestras necesidades
- Es un proceso de **ENSAYO y ERROR** utilizando combinaciones de ordenadores booleanos,
- Sin embargo, una búsqueda planificada únicamente con la utilización de los operadores booleanos, no siempre satisfará nuestras inquietudes.
- Por suerte, el buscador de **PubMed**, provee de otras **herramientas** fundamentales que es necesario conocer y utilizar.

Osteonecrosis maxilar y bisfosfonatos

- Entonces, en la práctica, ¿cómo encarar una búsqueda en Medline a través de PubMed?

Tres herramientas

- **1. MeSH browser**
- **2. Los operadores booleanos, que ya comentamos**
- **3. Los límites**



MeSH browser

MeSH browser

- Permite acceder a cada concepto, según la terminología con la que Medline ha realizado la indexación correspondiente. Por ejemplo, en el caso propuesto, **MAXILLARY** se encuentra indexado -entre otras alternativas- como "**Maxillary Diseases**" [Mesh]

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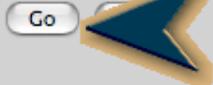
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Search MeSH for osteonecrosis



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 1: Osteonecrosis

Death of a bone or part of a bone, either atraumatic or posttraumatic.

Year introduced: 1977

[Subheadings](#): This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules for allowable combinations.

- blood chemically induced classification complications congenital diagnosis drug therapy economics embryol
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- 1: [Platelet-rich plasma: an adjunctive treatment modality for bisphosphonate osteonecrosis?](#)
Badr MS, Oliver RJ.
J Oral Maxillofac Surg. 2009 Jun;67(6):1357. No abstract available.
PMID: 19446237 [PubMed - indexed for MEDLINE]
[Related Articles](#)
- 2: [Increased risk for bisphosphonate-related osteonecrosis of the jaws in patients wearing dentures could be attributable to impaired mucosal cell wound healing.](#)
Kyrgidis A, Vahtsevanos K.
J Oral Maxillofac Surg. 2009 Jun;67(6):1355-6. No abstract available.
PMID: 19446234 [PubMed - indexed for MEDLINE]
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- 3: [Oral bisphosphonates and dental implants.](#)
McLeod NM.
J Oral Maxillofac Surg. 2009 Jun;67(6):1355. No abstract available.
PMID: 19446233 [PubMed - indexed for MEDLINE]

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-  osteonecrosis (1) MeSH
-  osteonecrosis AND maxilla... (79)
-  osteonecrosis AND maxilla... (79) PubMed

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Inflammation of the NASAL MUCOSA in the MAXILLARY SINUS. In many cases, it is caused by an infection of the bacteria HAEMOPHILUS INFLUENZAE; STREPTOCOCCUS PNEUMONIAE; or STAPHYLOCOCCUS AUREUS.

Year introduced: 1990

- 5: [Maxillary Nerve](#) Links
The intermediate sensory division of the trigeminal (5th cranial) nerve. The maxillary nerve carries general afferents from the intermediate region of the face including the lower eyelid, nose and upper lip, the maxillary teeth, and parts of the dura.
- 6: [Maxillary Neoplasms](#) Links
Cancer or tumors of the MAXILLA or upper jaw.
- 7: [Maxillary Fractures](#) Links
Fractures of the upper jaw.
Year introduced: 1966
- 8: [Maxillary Diseases](#) Links
Year introduced: 1967
- 9: [Maxillary Artery](#) Links
A branch of the external carotid artery which distributes to the deep structures of the face (internal maxillary) and to the side of the face and nose (external maxillary).
- 10: [Alveolar Ridge Augmentation](#) Links
Preprosthetic surgery involving rib, cartilage, or iliac crest bone grafts, usually autologous, or synthetic implants for rebuilding the alveolar ridge.
Year introduced: 1991(1980)
- 11: [Maxillofacial Prosthesis](#) Links
A prosthetic appliance for the replacement of areas of the maxilla, mandible, and face, missing as a result of deformity, disease, injury, or surgery. When the prosthesis replaces portions of the mandible only, it is referred to as MANDIBULAR PROSTHESIS.
Year introduced: 1967(1966)
- 12: [Palatal Expansion Technique](#) Links



Search MeSH for maxillary [Save Search](#)

"Osteonecrosis"[Mesh] AND "Maxillary Diseases"[Mesh]

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One page.

- 1: Maxilla** [Links](#)
One of a pair of irregularly shaped bones that form the upper jaw. A maxillary bone provides tooth sockets for the superior teeth, forms part of the ORBIT, and contains the MAXILLARY SINUS.
- 2: Maxillary Sinus Neoplasms** [Links](#)
Tumors or cancer of the MAXILLARY SINUS. They represent the majority of paranasal neoplasms.
Year introduced: 1991(1984)
- 3: Maxillary Sinus** [Links](#)
The air space located in the body of the MAXILLARY BONE near each cheek. Each maxillary sinus communicates with the middle passage (meatus) of the NASAL CAVITY on the same side.

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- maxillary (12) MeSH

- "Osteonecrosis"[Mesh] (9038) PubMed

- Osteonecrosis

- osteonecrosis (1) MeSH



Seguir afinando la puntería....



Subheadings

Subheadings

1: Osteonecrosis

Death of a bone or part of a bone, either atraumatic or posttraumatic.

Year introduced: 1977

Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules for allowable combinations.

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[Article in Spanish]

Bocanegra-Pérez S, Vicente-Barrero M, Sosa-Henríquez M, Gebaguer Blanco A, Knezevic M, Castellano-Navarro JM.

Atención Primaria del Servicio Canario de Salud, Hospital Universitario Insular, Las Palmas, España.

Osteonecrosis of the jaw associated to biphosphonate use is more common in cancer patients with bone metastases, that are using intravenous diphosphonates. When these drugs are used orally the risk of the complication is lower. We report 3 diabetic women aged 69, 76 and 82 years, receiving alendronate 70 mg every one week. The unveiling event was the extraction of several teeth without the use of antibiotics. All had bone pain, purulent discharge, loss of bone and halitosis. All improved five months after discontinuing alendronate.

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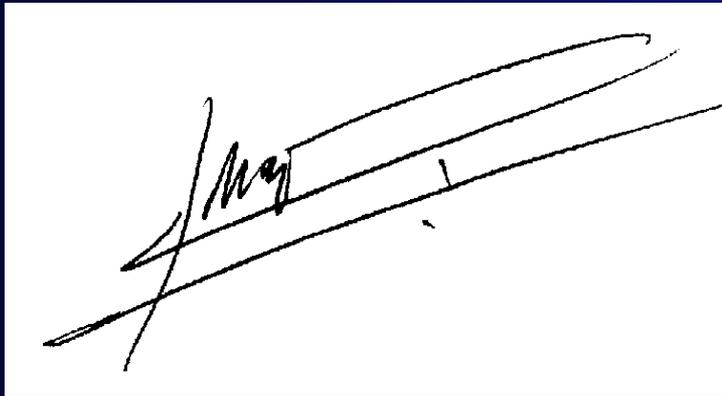
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- Las búsquedas bibliográficas en PubMed son de gran utilidad en la práctica clínica
- Han simplificado la forma de encontrar bibliografía sobre un tema determinado
- Nos permiten estar actualizados permanentemente en los temas de nuestro interés

¡GRACIAS!

A handwritten signature in black ink on a white background. The signature is stylized and appears to be 'J. M. G.' followed by a long horizontal line that loops back to the left.