SUBSECRETARÍA DE SALUD PÚBLICA
DIVISIÓN DE PLANIFICACIÓN SANITARIA
DEPARTAMENTO EVALUACIÓN DE TECNOLOGÍAS SANITARIAS Y SALUD BASADA EN EVIDENCIA

INFORME DE BÚSQUEDA Y SÍNTESIS DE COSTO-EFECTIVIDAD

Guía de Práctica Clínica
Urgencias Odontológicas Ambulatorias: Infecciones de origen dentario

EN PERSONAS CON DENTICIÓN PERMANENTE Y DIAGNÓSTICO DE INFECCIÓN DE ORIGEN DENTARIO, SIN COMPROMISO DEL ESTADO GENERAL CON ALGUNA CONDICIÓN SISTÉMICA COMPENSADO O NO COMPENSADO QUE AUMENTE EL RIESGO DE SU PROGRESIÓN O DISEMINACIÓN (DIABETES, INSUFICIENCIA HEPÁTICA, INMUNOSUPRESIÓN, SITUACIÓN DE CALLE, ETC) ¿SE DEBE USAR "ANTIBIÓTICOS" EN COMPARACIÓN A "NO USAR"?

Uno de los factores a considerar para formular una recomendación en Guías de Práctica Clínica con la metodología "*Grading of Recommendations Assessment, Development and Evaluation*" es la relación entre la efectividad y los costos de las intervenciones a evaluar.

BÚSQUEDA DE EVALUACIONES ECONÓMICAS

Para determinar si la evidencia de costo-efectividad de las tecnologías sanitarias era necesaria se aplicaron los siguientes criterios en conjunto con el equipo de expertos:

- Mucha variabilidad en la práctica clínica.
- Incertidumbre relevante respecto a costo efectividad de intervenciones evaluadas.
- Cambio en práctica clínica acarrea altos beneficios en términos de salud.
- El cambio en la práctica clínica puede tener un impacto relevante en costos y el presupuesto del sistema de salud.

La búsqueda consideró estudios de costo-efectividad y revisiones sistemáticas de evaluaciones de costo-efectividad del uso de antibióticos versus el no uso de antibióticos, en personas con dentición permanente y diagnóstico de infección de origen dentario, sin compromiso del estado general con alguna condición sistémica compensado o no compensado que aumente el riesgo de su progresión o diseminación. Se identificaron términos MESH y términos de texto libre asociados a la población. La búsqueda consideró estudios publicados en inglés y español, en las siguientes bases de datos: MEDLINE, EMABASE, COCHRANE, GOOGLE, BRISA y en el National Institute for health and Care Excellence (NICE).

Todas las estrategias de búsqueda fueron realizadas durante el año 2019.

Ver detalle en Anexo 1 "*Términos de Búsqueda y Resultados de la búsqueda*".

SÍNTESIS DE EVIDENCIA SEGÚN PREGUNTA

Una vez ejecutada la búsqueda, se evaluaron los títulos y resúmenes de los estudios encontrados y se seleccionaron las evaluaciones económicas que utilizaran como método la costo-utilidad y costo-efectividad. En este caso, no se encontraron artículos que abordaran la pregunta de estudio en ninguna de las fuentes buscadas.

ANEXO 1: ESTRATEGIA DE BÚSQUEDA Y RESULTADOS DE LA BÚSQUEDA

	Términos libres	DECS	MeSH
P	Tooth, teeth, permanent tooth, permanent teeth, secondary tooth, secondary teeth, adult tooth, adult teeth, dentition, permanent, permanent dentition, dentition, secondary, secondary dentition, dentition, adult, adult dentition, oral, bucal, dental, odontogenic, endodontic, periapical, periodontal, facial, infection, infections, cellulitis y abscess	Diente, dientes, diente permanente, diente definitivo, diente adulto, dentición permanente, oral, bucal, odontogénico, endodoncia, periapical, periodontal, facial, infección, absceso submucoso, absceso subperióstico, celulitis y absceso.	Dentition, permanent, Infection control, dental y focal infection, dental
I	Antibiotic, antibiotics, amoxicillin, clavulanic, clavulanic acid, clindamycin, cloxacillin y penicillin	Antibiótico, antibióticos, amoxicilina, clavulánico, ácido clavulánico, clindamicina, cloxacilina y penicilina	Amoxicillin, clavulanic acid, clindamycin, cloxacillin, penicillins, penicillin V y penicillin G
C	Amoxicillin	Amoxicilina	Amoxicillin
O	Cost benefit analysis, cost effectiveness, cost utility analysis, economic evaluation, marginal analysis, pricing, biomedical technology assessment, health technology assessment, economics, willingness to pay, health care cost, ICER, QALY, DALY, quality adjusted life years, disability adjusted life years, incremental cost effectiveness ratio	Análisis costo beneficio, análisis costo efectividad, análisis costo utilidad, evaluación económica, análisis de precio, tecnologías biomédicas, evaluación de tecnologías, disponibilidad de pago, costos en salud, costos sanitarios, ICER, QALY, DALY, quality adjusted life years, disability adjusted life years, incremental cost effectiveness ratio, AVAC, año de vida ajustado por calidad, razón costo efectividad, año de vida ajustado por	Cost-benefit analysis, costs and cost analysis, technology assessment, biomedical

Base de datos	Fecha de búsqueda	Resultados	Resultados después de remover duplicados
Medline-Pubmed	19.08.2019	24	24
EMBASE	19.08.2019	37	28
NICE	19.08.2019	0	0
BRISA (RedETSA)	19.08.2019	0	0
COCHRANE	19.08.2019	0	0
GOOGLE	19.08.2019	0	0
Total	19.08.2019	61	52

Estrategias de Búsqueda

PUBMED

1	Dentition, permanent[MeSH Terms] or Tooth[Text Word] or Teeth[Text Word] or Permanent tooth[Text Word] or Permanent teeth[Text Word] or Secondary tooth[Text Word] or Secondary teeth[Text Word] or Adult tooth[Text Word] or Adult teeth[Text Word] or Dentition, permanent[Text Word] or Permanent Dentition[Text Word] or Dentition, Secondary[Text Word] or Secondary Dentition[Text Word] or Dentition, Adult[Text Word] or Adult Dentition[Text Word]	**231456**
2	Infection control, dental[MeSH Terms] or focal infection, dental[MeSH Terms] or ((oral[Text Word] or tooth[Text Word] or teeth[Text Word] or bucal[Text Word] or dental[Text Word] or odontogenic[Text Word] or endodontic[Text Word] or periapical[Text Word] or periodontal[Text Word] or facial[Text Word]) and (infection[Text Word] or infections[Text Word] or cellulitis[Text Word] or abscess[Text Word]))	**97827**
3	Amoxicillin[MeSH Terms] or clavulanic acid[MeSH Terms] or clindamycin[MeSH Terms] or cloxacillin[MeSH Terms] or penicillins[MeSH Terms] or penicillin V[MeSH Terms] or penicillin G[MeSH Terms] or Antibiotic[Text Word] or antibiotics[Text Word] or amoxicillin[Text Word] or clavulanic[Text Word] or clavulanic acid[Text Word] or clindamycin[Text Word] or cloxacillin[Text Word] or penicillin[Text Word]	**437513**
4	((cost-benefit analysis[MeSH Terms]) or (costs and cost analysis[MeSH Terms])) or technology assessment, biomedical[MeSH Terms]) or Analyses, Cost-Benefit[Text Word]) or Analysis, Cost-Benefit[Text Word]) or Cost-Benefit Analyses[Text Word]) or Cost Benefit Analysis[Text Word]) or Analyses, Cost Benefit[Text Word]) or Analysis, Cost Benefit[Text Word]) or Cost Benefit Analyses[Text Word]) or Cost Effectiveness[Text Word]) or Effectiveness, Cost[Text Word]) or Cost-Benefit Data[Text Word]) or Cost Benefit Data[Text Word]) or Data, Cost-Benefit[Text Word]) or Cost-Utility Analysis[Text Word]) or Analyses, Cost-Utility[Text Word]) or Analysis, Cost-Utility[Text Word]) or Cost Utility Analysis[Text Word]) or Cost-Utility Analyses[Text Word]) or Economic Evaluation[Text Word]) or Economic Evaluations[Text Word]) or Evaluation, Economic[Text Word]) or Evaluations, Economic[Text Word]) or Marginal Analysis[Text Word]) or Analyses, Marginal[Text Word]) or Analysis, Marginal[Text Word]) or Marginal Analyses[Text Word]) or Cost Benefit[Text Word]) or (Costs[Text Word] and Benefits[Text Word])) or (Benefits[Text Word] and Costs[Text Word])) or Cost-Effectiveness Analysis[Text Word]) or Analysis, Cost-Effectiveness[Text Word]) or Cost Effectiveness Analysis[Text Word]) or (Costs[Text Word] and Cost Analysis[Text Word])) or Affordability[Text Word]) or Affordabilities[Text Word]) or Cost-Minimization Analysis[Text Word]) or Analyses, Cost-Minimization[Text Word]) or Analysis, Cost-Minimization[Text Word]) or Cost Minimization Analysis[Text Word]) or Cost-Minimization Analyses[Text Word]) or Pricing[Text Word]) or Cost[Text Word]) or Costs[Text Word]) or Biomedical Technology Assessment[Text Word]) or Technology Assessment, Health[Text Word]) or Assessment, Health Technology[Text Word]) or Assessments, Health Technology[Text Word]) or Health Technology Assessment[Text Word]) or Health Technology Assessments[Text Word]) or Technology Assessments, Health[Text Word]) or Assessment, Biomedical Technology[Text Word]) or Assessments, Biomedical Technology[Text Word]) or Biomedical Technology Assessments[Text Word]) or Technology Assessments, Biomedical[Text Word]) or Technology Assessment[Text Word]) or Assessment, Technology[Text Word]) or Assessments, Technology[Text Word]) or Technology Assessments[Text Word]) or Economics[Text Word]) or willingness to pay[Text Word]) or willingness-to-pay[Text Word]) or health care cost[Text Word]) or ICER[Text Word]) or QALY[Text Word]) or DALY[Text Word]) or Quality-Adjusted-Life-Years[Text Word]) or Quality Adjusted Life Years[Text Word]) or Disability-Adjusted-Life-Years[Text Word]) or Disability Adjusted Life-Years[Text Word]) or Incremental Cost Effectiveness Ratio[Text Word]	**907120**
5	(pubmed books[filter] or Case Reports[ptyp] or Clinical Study[ptyp] or systematic[sb] or Government Document[ptyp] or Clinical Trial, Phase III[ptyp] or Clinical Trial, Phase II[ptyp] or Clinical Trial, Phase I[ptyp] or Clinical Trial Protocol[ptyp] or Clinical Trial[ptyp] or Clinical Trial, Phase IV[ptyp] or Comparative Study[ptyp] or Controlled Clinical Trial[ptyp] or English Abstract[ptyp] or Evaluation Studies[ptyp] or Guideline[ptyp] or Journal Article[ptyp] or Lecture[ptyp] or Meta-Analysis[ptyp] or Multicenter Study[ptyp] or Observational Study[ptyp] or Overall[ptyp] or Practice Guideline[ptyp] or Review[ptyp] or Randomized Controlled Trial[ptyp] or Pragmatic Clinical Trial[ptyp])	**28461267**
6	("1999/01/01"[PDAT] : "2019/08/19"[PDAT])	**17017913**

7	(English[lang] or German[lang] or Portuguese[lang] or Spanish[lang])	**26583508**
8	#1 and #2 and #3 and #4 and #5 and #6 and #7	**24**

Estudios encontrados en Pubmed, que fueron encontrados usando filtro inicial, pero que no abordaban finalmente la pregunta de investigación:

- Koh, S. W. C., Li, C. F., Loh, J. S. P., Wong, M. L., & Loh, V. W. K. (2019). Managing tooth pain in general practice. *Singapore medical journal*, *60*(5), 224.

- Heim, N., Berger, M., Wiedemeyer, V., Reich, R., & Martini, M. (2019). A mathematical approach improves the predictability of length of hospitalization due to acute odontogenic infection: A retrospective investigation of 303 patients. *Journal of Cranio-Maxillofacial Surgery*, *47*(2), 334-340.

- Pippi, R., Pietrantoni, A., Patini, R., & Santoro, M. (2018). Is telephone follow-up really effective in early diagnosis of inflammatory complications after tooth extraction?. *Medicina oral, patologia oral y cirugia bucal*, *23*(6), e707.

- Chaikof, E. L., Dalman, R. L., Eskandari, M. K., Jackson, B. M., Lee, W. A., Mansour, M. A., ... & Oderich, G. S. (2018). The Society for Vascular Surgery practice guidelines on the care of patients with an abdominal aortic aneurysm. *Journal of vascular surgery*, *67*(1), 2-77.

- Österberg, M., Holmlund, A., Sunzel, B., Tranaeus, S., Twetman, S., & Lund, B. (2017). Knowledge Gaps in Oral and Maxillofacial Surgery: a Systematic Mapping. *International journal of technology assessment in health care*, *33*(1), 93-102.

- Tobin, E. J. (2017). Recent coating developments for combination devices in orthopedic and dental applications: a literature review. *Advanced Drug Delivery Reviews*, *112*, 88-100.

- Legout, L., Beltrand, E., Migaud, H., & Senneville, E. (2012). Antibiotic prophylaxis to reduce the risk of joint implant contamination during dental surgery seems unnecessary. *Orthopaedics & Traumatology: Surgery & Research*, *98*(8), 910-914

- Paudel, K. R., Sah, N. K., & Jaiswal, A. K. (2010). Prevalence of pharmacotherapy in the department of paediatric dentistry. *Kathmandu University Medical Journal*, *8*(2), 190-194.

- Esposito, M., Grusovin, M. G., & Worthington, H. V. (2013). Interventions for replacing missing teeth: antibiotics at dental implant placement to prevent complications. *Cochrane Database of Systematic Reviews*, (7).

- Ibrahim, A. M., & Siddique, M. S. (2018). Subacute Bacterial Endocarditis (SBE) Prophylaxis. In *StatPearls [Internet]*. StatPearls Publishing.

- Izadjoo, M., Zack, S., Kim, H., & Skiba, J. (2018). Medical applications of cold atmospheric plasma: state of the science. *Journal of wound care*, *27*(Sup9), S4-S10.

- Dana, R., Azarpazhooh, A., Laghapour, N., Suda, K. J., & Okunseri, C. (2018). Role of dentists in prescribing opioid analgesics and antibiotics: an overview. *Dental Clinics*, *62*(2), 279-294.

- Swedish Council on Health Technology Assessment. Chronic Periodontitis – Prevention, Diagnosis and Treatment: A Systematic Review. Stockholm: Swedish Council on Health Technology Assessment (SBU); 2004 Oct. SBU Yellow Report No. 169.

- Marotti, M., Ebeleseder, K. A., Schwantzer, G., & Jauk, S. (2017). A retrospective study of isolated fractures of the alveolar process in the permanent dentition. *Dental Traumatology*, *33*(3), 165-174.

- Yuvaraj, V. (2016). Maxillofacial infections of odontogenic origin: epidemiological, microbiological and therapeutic factors in an Indian population. *Indian Journal of Otolaryngology and Head & Neck Surgery*, *68*(4), 396-399.

- Jundt, J. S., & Gutta, R. (2012). Characteristics and cost impact of severe odontogenic infections. *Oral surgery, oral medicine, oral pathology and oral radiology*, *114*(5), 558-566.

- Flynn, T. R. (2011). What are the antibiotics of choice for odontogenic infections, and how long should the treatment course last?. *Oral and Maxillofacial Surgery Clinics*, *23*(4), 519-536.

- Olusanya, A. A., Arotiba, J. T., Fasola, O. A., & Akadiri, A. O. (2011). Prophylaxis versus pre-emptive antibiotics in third molar surgery: a randomised control study. *The Nigerian postgraduate medical journal*, *18*(2), 105-110.

- Tran, C., Gussy, M., & Kilpatrick, N. (2010). Pathways to emergency dental care: An exploratory study. *European Archives of Paediatric Dentistry*, *11*(2), 97-100.

- Mehra, P., & Murad, H. (2008). Internal fixation of mandibular angle fractures: a comparison of 2 techniques. *Journal of Oral and Maxillofacial Surgery*, *66*(11), 2254-2260.

- Barasch, A., Safford, M. M., Litaker, M. S., & Gilbert, G. H. (2008). Risk factors for oral postoperative infection in patients with diabetes. *Special Care in Dentistry*, *28*(4), 159-166.

- Villa, R., & Rangert, B. (2005). Early loading of interforaminal implants immediately installed after extraction of teeth presenting endodontic and periodontal lesions. *Clinical implant dentistry and related research*, *7*, s28-s35.

- SLOTS, J., & Jorgensen, M. G. (2000). Efficient antimicrobial treatment in periodontal maintenance care. *The journal of the American dental association*, *131*(9), 1293-1304.

EMBASE

1	(Economic evaluation or biomedical technology assessment or health economics or quality adjusted life year or disability-adjusted life year).sh. or (Economic evaluation* or disease management or health economics or cost minimization analysis or cost minimization or cost-minimization or cost benefit analysis or cost-benefit or cost benefit or cost control or cost effectiveness analysis or cost-effectiveness or cost effectiveness or cost minimization analysis or cost of illness or cost utility analysis or cost utility or cost-utility or biomedical technology assessment or health technology assessment or biomedical technology assessment or high-cost technology or health care quality or health economics or dental economics or economics, dental or economics, hospital or hospital economics or economics, medical or medical economics or medical, nursing or nursing economics or economic aspect or health care concept or health care concepts or device economics or pharmacoeconomics or cost* or benefit* or pricing* or affordabilit* or marginal analysis or quality adjusted life year or qaly or quality-adjusted-life-year or disease burden or quality of life or disability adjusted life year or DALY or DALYs or disability-adjusted life year or disability-adjusted-life-year or ICER or Willingness to pay or Willingness-to-pay or Incremental cost effectiveness ratio or Incremental-cost-effectiveness-ratio).tw.	**1936356**
2	(Permanent tooth or Secondary dentition).sh or (adult dentition or dentition, permanent or permanent dentition or secondary dentition or adult teeth or adult tooth or dentes permanentes or permanent teeth or permanent tooth or secondary tooth or secondary teeth or tooth, permanent or tooth or teeth).tw.	**151786**
3	(Tooth infection.sh. or (Tooth infection or dental infection or focal infection, dental or infection, dental or odontogenic, infection).tw.) or ((oral or tooth or teeth or bucal or dental or odontogenic or endodontic or periapical or periodontal or facial).tw and (infection or infections or cellulitis or abscess).tw.)	**97303**
4	(Amoxicillin or clavulanic acid or penicillin derivativeor clindamycin or cloxacillin or penicillins or penicillin V or penicillin G).sh or (Antibiotic* or amoxicillin or clavulanic or clavulanic acid or clindamycin or cloxacillin or penicillin).tw.	**515541**
5	1 and 2 and 3 and 4	**89**
6	Limit 5 to (english or german or portuguese or spanish)	**87**
7	Limit 6 to (article or article in press or books or chapter or "review")	**58**
8	Limit 7 to last 20 years	**54**
9	Limit 8 to embase	**37**

Estudios encontrados en Embase, que fueron encontrados usando filtro inicial, pero que no abordaban finalmente la pregunta de investigación:

- Koh, S. W. C., Li, C. F., Loh, J. S. P., Wong, M. L., & Loh, V. W. K. (2019). Managing tooth pain in general practice. *Singapore medical journal*, *60*(5), 224.

- Heim, N., Berger, M., Wiedemeyer, V., Reich, R., & Martini, M. (2019). A mathematical approach improves the predictability of length of hospitalization due to acute odontogenic infection: A retrospective investigation of 303 patients. *Journal of Cranio-Maxillofacial Surgery*, *47*(2), 334-340.

- Pippi, R., Pietrantoni, A., Patini, R., & Santoro, M. (2018). Is telephone follow-up really effective in early diagnosis of inflammatory complications after tooth extraction?. *Medicina oral, patologia oral y cirugia bucal*, *23*(6), e707.

- Kumar, M. S., & Gurunathan, D. (2019). Lemongrass in dental health. *Drug Invention Today*, *11*(3).

- Cope, A., Francis, N., Wood, F., Mann, M. K., & Chestnutt, I. G. (2014). Systemic antibiotics for symptomatic apical periodontitis and acute apical abscess in adults. *Cochrane Database of Systematic Reviews*, (6).

- Chaikof, E. L., Dalman, R. L., Eskandari, M. K., Jackson, B. M., Lee, W. A., Mansour, M. A., ... & Oderich, G. S. (2018). The Society for Vascular Surgery practice guidelines on the care of patients with an abdominal aortic aneurysm. *Journal of vascular surgery*, *67*(1), 2-77.

- Manresa, C., Sanz-Miralles, E. C., Twigg, J., & Bravo, M. (2018). Supportive periodontal therapy (SPT) for maintaining the dentition in adults treated for periodontitis. *Cochrane Database of Systematic Reviews*, (1).

- Österberg, M., Holmlund, A., Sunzel, B., Tranaeus, S., Twetman, S., & Lund, B. (2017). Knowledge Gaps in Oral and Maxillofacial Surgery: a Systematic Mapping. *International journal of technology assessment in health care*, *33*(1), 93-102.

- Tobin, E. J. (2017). Recent coating developments for combination devices in orthopedic and dental applications: a literature review. *Advanced Drug Delivery Reviews*, *112*, 88-100.

- Davis, C. M., Gregoire, C. E., Davis, I., & Steeves, T. W. (2017). Prevalence of surgical site infections following orthognathic surgery: a double-blind, randomized controlled trial on a 3-day versus 1-day postoperative antibiotic regimen. *Journal of Oral and Maxillofacial Surgery*, *75*(4), 796-804.

- Del Fabbro, M., Corbella, S., Sequeira-Byron, P., Tsesis, I., Rosen, E., Lolato, A., & Taschieri, S. (2016). Endodontic procedures for retreatment of periapical lesions. *Cochrane database of systematic reviews*, (10).

- Yeung, C. A., Chong, L. Y., & Glenny, A. M. (2015). Fluoridated milk for preventing dental caries. *Cochrane Database of Systematic Reviews*, (8).

- Dosumu, E. B., Bankole, O. O., & Dosumu, O. O. (2015). Simultaneous Occurrence of Periodontal and Skin Abscesses in a Nigerian Girl: Case Report. *African Journal of Biomedical Research*, *18*(3), 249-255.

- Cope, A. L., Francis, N., Wood, F., & Chestnutt, I. G. (2018). Systemic antibiotics for symptomatic apical periodontitis and acute apical abscess in adults. *Cochrane Database of Systematic Reviews*, (9).

- Channar, K. A., Tareen, M. K., Hamad, J., & Warraich, R. A. (2014). Role of Antibiotics in Surgical Removal of Asymptomatic Mandibular Third Molar Impaction. *J Liaquat Uni Med Health Sci*, *13*(03), 112-5.

- Kreutzer, K., Storck, K., & Weitz, J. (2014). Current evidence regarding prophylactic antibiotics in head and neck and maxillofacial surgery. *BioMed research international*, *2014*.

- Lee, A. M., Gabe, S. M., Nightingale, J. M., & Burke, M. (2013). Intestinal failure and home parenteral nutrition: implications for oral health and dental care. *Clinical nutrition*, *32*(1), 77-82.

- Bloukh, S.I.. (2013). Clostridium difficile infection: An overview of the disease and its pathogenesis, diagnosis, treatment, prevention and management. Research Journal of Pharmaceutical, Biological and Chemical Sciences. 4. 1219-1232.

- Monsarrat, P., Vergnes, J. N., Cantagrel, A., Algans, N., Cousty, S., Kémoun, P., ... & Schaeverbeke, T. (2013). Effect of periodontal treatment on the clinical parameters of patients with rheumatoid arthritis: study protocol of the randomized, controlled ESPERA trial. *Trials*, *14*(1), 253.

- Longato, L., Cavalli, L., Marcucci, G., Metozzi, A., Giusti, F., Brandi, M. L., & Piscitelli, P. (2013). Osteonecrosis of the jaw in a patient with rheumatoid artritis treated with an oral aminobisphosphonate: a clinical case report. *Clinical Cases in Mineral and Bone Metabolism*, *10*(2), 139.

- Raheja, I., Kohli, K., & Drabu, S. (2013). Periodontal drug delivery system containing antimicrobial agents. *Int J Pharm Pharm Sci*, *5*(3), 11-16.

- Lodi, G., Figini, L., Sardella, A., Carrassi, A., Del Fabbro, M., & Furness, S. (2012). Antibiotics to prevent complications following tooth extractions. *Cochrane Database of Systematic Reviews*, (11).

- Osawe, F. O., & Osagie, A. O. (2012). Unusual cause of palatal ulcer in a parial denture wearer: Alcaligenes species. *Journal of Medicine and Biomedical Research*, *11*(2), 76-79.

- Legout, L., Beltrand, E., Migaud, H., & Senneville, E. (2012). Antibiotic prophylaxis to reduce the risk of joint implant contamination during dental surgery seems unnecessary. Orthopaedics & Traumatology: Surgery & Research, 98(8), 910-914

- Dimartino, C. (2012). Amoxicillin does not improve symptoms of acute rhinosinusitis. Am Fam Physician. Aug 1;86(3):282-291.

- Walling, A.D.. (2010). Does treating periodontal disease during pregnancy reduce preterm birth?. Am Fam Physician. Sep 15;82(6):693.

- Paudel, K. R., Sah, N. K., & Jaiswal, A. K. (2010). Prevalence of pharmacotherapy in the department of paediatric dentistry. Kathmandu University Medical Journal, 8(2), 190-194.

- Wimalawansa, S. (2008). Bisphosphonate-associated osteomyelitis of the jaw: guidelines for practicing clinicians. Endocrine Practice, 14(9), 1150-1168.

- Esposito, M., Grusovin, M. G., & Worthington, H. V. (2013). Interventions for replacing missing teeth: antibiotics at dental implant placement to prevent complications. Cochrane Database of Systematic Reviews, (7).

- Leonhardt, Å., Bergström, C., Krok, L., & Cardaropoli, G. (2006). Healing following ultrasonic debridement and PVP-iodine in individuals with severe chronic periodontal disease: a randomized, controlled clinical study. Acta odontologica Scandinavica, 64(5), 262-266.

- Dyck, H., Huggett, S., Dierk, O., Hille, E., & Sardemann, W. (2006). A Case Report: Infection of a Knee Prosthesis after Dental Treatment-Approaches for Prevention. HYGIENE UND MEDIZIN, 31(12), 569.

- Anonymous. Intranasal steroids alone effective for acute uncomplicated sinusitis. J Fam Pract. 2006 Mar;55(3):190.

- Ozbek, S. M., Evcil, M. S., Ozbek, A., Erdoğan, A. S., & Köseoğlu, M. (2006). Microbiological analysis of root canals associated with periapical abscesses (with pain and swelling) and the antimicrobial susceptibility of isolated bacteria. The Pain Clinic, 18(4), 327-337.

- Lyon, K. F. (2005). Gingivostomatitis. Veterinary Clinics: Small Animal Practice, 35(4), 891-911.

- Benavides, S., & Nahata, M. C. (2002). Anthrax: safe treatment for children. Annals of Pharmacotherapy, 36(2), 334-337.

- Seutter, F., Lang, G., & Schonekas, H. (2000). Pyogenic Liver Abscess Caused by Streptococcus intermedius: Rare Complication of Dental Disease. Leber Magen Darm-Zeitschrift fur Angewandte Gastroenterologie, 30(2), 85-88.

- Wahlmann, U., Al-Nawas, B., Jütte, M., & Wagner, W. (1999). Clinical and microbiological efficacy of single dose cefuroxime prophylaxis for dental surgical procedures. International journal of antimicrobial agents, 12(3), 253-256.