

**Informe de Búsqueda sistemática de evidencia de los
efectos deseables e indeseables
Guía de Práctica Clínica Salud oral integral para adultos
de 60 años: Edentulismo
2018**



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TABLA RESUMEN

Problema de salud	Salud oral integral para adultos de 60 años: Edentulismo
ICD10	K08.4 + K08.1
Fecha de entrega	01/12/2018
Investigador responsable	Gabriel Rada Giacaman
Número de revisiones sistemáticas	351
Número de preguntas	52
L·OVE	<i>Edentulism</i>
L·OVE URL	https://love.epistemonikos.org/loves/5bc12762d be4d26015c5d074

ESTRATEGIA DE BÚSQUEDA

Se realizaron búsquedas en Epistemonikos, una base de datos exhaustiva de revisiones sistemáticas relevantes para la toma de decisiones en salud. La búsqueda de evidencia fue realizada en las siguientes bases de datos¹ con las estrategias descritas en el Apéndice 1.

1. Cochrane database of systematic reviews (CDSR)
2. Database of Abstracts of Reviews of Effectiveness (DARE)
3. HTA Database
4. PubMed
5. LILACS
6. CINAHL.
7. PsychINFO.
8. EMBASE.
9. EPPI-Centre Evidence Library
10. 3ie Systematic Reviews and Policy Briefs Campbell Library
11. Clinical Evidence.
12. SUPPORT Summaries
13. WHO Institutional Repository for Information Sharing
14. NICE public health guidelines and systematic reviews
15. ACP Journal Club.
16. Evidencias en Pediatría
17. The JBI Database of Systematic Reviews and Implementation Reports

CRITERIOS DE INCLUSIÓN

Consideramos todas las revisiones sistemáticas que están sintetizando estudios primarios (tanto experimentales como observacionales) de acuerdo a la definición empleada por la Colaboración Cochrane y la declaración PRISMA.²

Una revisión elegible debe cumplir con los siguientes criterios operacionales:

1. Reporta una búsqueda en al menos una base de datos electrónica.
2. Reporta al menos uno de los siguientes criterios inclusión de los estudios:
 - **Tipo de participantes:** Se incluyen todas las revisiones sistemáticas que resuman estudios que respondan la pregunta acerca de intervenciones para Salud oral integral para adultos de 60 años: Edentulismo.
 - **Tipo de desenlaces:** Se incluyen revisiones que presentan una síntesis (cuantitativa o cualitativa) de al menos un desenlace importante para el paciente u otra información

¹ La actualización se realiza de manera semanal. Se encuentra disponible en la plataforma digital un sistema de alerta que permite informar a través de correo electrónico la publicación de nuevos estudios que dan respuesta a las preguntas definidas, de manera de mantener continuamente actualizada la evidencia.

² “Una revisión sistemática intenta recopilar toda la evidencia empírica para responder a una pregunta de investigación específica, que cumple con criterios previamente definidos. Utiliza métodos explícitos y sistemáticos, que se eligen con miras a minimizar el sesgo, de manera de entregar hallazgos confiables que permitan sacar conclusiones y tomar decisiones”.

relevante para tomar decisiones poblacionales o individuales acerca de intervenciones para Salud oral integral para adultos de 60 años: Edentulismo

RECOLECCIÓN, ANÁLISIS Y SÍNTESIS DE DATOS

SELECCIÓN DE LAS REVISIONES

Al menos dos revisores, de manera independiente, realizaron el cribado de los títulos y resúmenes para identificar los artículos relevantes. El texto completo de las revisiones potencialmente elegibles fue recuperado y evaluado, de manera independiente, para su inclusión final. Un tercer investigador resolvió cualquier discrepancia que pudiera haberse provocado entre los distintos revisores.

MAPEO DE LA EVIDENCIA

Con el objetivo de generar un listado exhaustivo de todas las posibles preguntas relacionadas con el tópico del L-OVE: *Edentulismo*³, se realiza la agrupación de las revisiones resultantes en formato PICO, es decir: población, intervención, comparación y desenlace [*outcome*]) utilizamos las siguientes fuentes:

1. Guías y documentos
2. Criterios de inclusión de las revisiones sistemáticas identificadas
3. Consulta con expertos
4. Retroalimentación de los usuarios

Como resultado final la plataforma incluye toda la evidencia disponible en revisiones sistemáticas y sus estudios primarios incluidos, segregada por nodos de evidencia que representan cada una de las preguntas priorizadas para actualización de la guía (Ver “Diagrama de flujo PRISMA” en Apéndice 2 y “Referencia Seleccionada” en Apéndice 3).

ACTUALIZACIÓN – “LIVING”

Todas las búsquedas a través de esta plataforma se mantienen continuamente actualizada gracias a la tecnología implementada en el buscador de Epistemonikos y sus distintos colaboradores. Por lo cual, tanto la cantidad de revisiones, preguntas, entre otros datos cambian continuamente. Los datos presentados en este informe son los correspondientes a la fecha de entrega.

³Ver resultados de la búsqueda en: <https://love.epistemonikos.org/loves/5bc12762dbe4d26015c5d074>

APÉNDICE 1. ESTRATEGIAS DE BÚSQUEDA:⁴

Cochrane Library - Cochrane database of systematic reviews (CDSR)

<http://www.thecochranelibrary.com>

((tooth OR teeth OR dental) AND (missing OR loss OR lost)) OR edentul*, in Title, Abstract,
Keywords: Cochrane Reviews (Reviews NOT protocols)

Medline/PubMed - US National Library of Medicine

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

((tooth OR teeth OR dental) AND (missing OR loss OR lost)) OR edentul* AND
(MEDLINE[Title/Abstract] OR (systematic[Title/Abstract] AND review[Title/Abstract]) OR
meta analysis[Publication Type])

EMBASE (Excerpta Medica dataBASE)

<http://www.embase.com>

Frequency of search: weekly
((tooth OR teeth OR dental) AND (missing OR loss OR lost)) OR edentul* AND (meta-
analysis.tw. OR systematic review.tw)

CINAHL (Cumulative Index to Nursing and Allied Health Literature)

<https://www.ebscohost.com/nursing/products/cinahl-databases/the-cinahl-database>

((tooth OR teeth OR dental) AND (missing OR loss OR lost)) OR edentul* AND ((TI meta analys*
or AB meta analys*) or (TI systematic review or AB systematic review))

PsycINFO

<http://www.apa.org/pubs/databases/psycinfo>

((tooth OR teeth OR dental) AND (missing OR loss OR lost)) OR edentul* AND (meta-analysis
OR search*)

LILACS (Literatura Latinoamericana y del Caribe en Ciencias de la Salud)

<http://lilacs.bvsalud.org/en/>

((tooth OR teeth OR dental) AND (missing OR loss OR lost)) OR edentul* AND (tw:"revision
sistemática" or tw:"revisao sistemática" or tw:"systematic review") or ((MH:"Literatura de
Revisión como asunto" OR MH:"Metanálisis como asunto" OR PT:Revision OR PT:Metanálisis)
and (TW:Metaanal\$ OR TW:"Meta-analysis" OR TW:"Meta-analise" OR TW:"Meta-analysis"
OR TI:overview\$ or TW:"estudio sistemático" OR TW:"systematic study" OR TW:"estudo
sistemático" OR TI:review OR TI:revisao OR TI:revision))

⁴ No se aplican restricciones en base al idioma o estado de publicación.

DARE (Database of Abstracts of Reviews of Effectiveness) - Centre for Reviews and Dissemination, University of York

<http://www.crd.york.ac.uk/CRDWeb/>

((tooth OR teeth OR dental) AND (missing OR loss OR lost)) OR edentul*, in Any field: CRD assessed review (bibliographic)/ CRD assessed review (full abstract)

HTA

Database

<http://www.crd.york.ac.uk/CRDWeb/>

((tooth OR teeth OR dental) AND (missing OR loss OR lost)) OR edentul*, in Any field

The Campbell Collaboration Online Library

<https://www.campbellcollaboration.org/library.html>

((tooth OR teeth OR dental) AND (missing OR loss OR lost)) OR edentul*, in Title: Review

JBIC Database of Systematic Reviews and Implementation Reports

<http://journals.lww.com/jbisrir/pages>

((tooth OR teeth OR dental) AND (missing OR loss OR lost)) OR edentul* AND (review OR meta*), in All fields

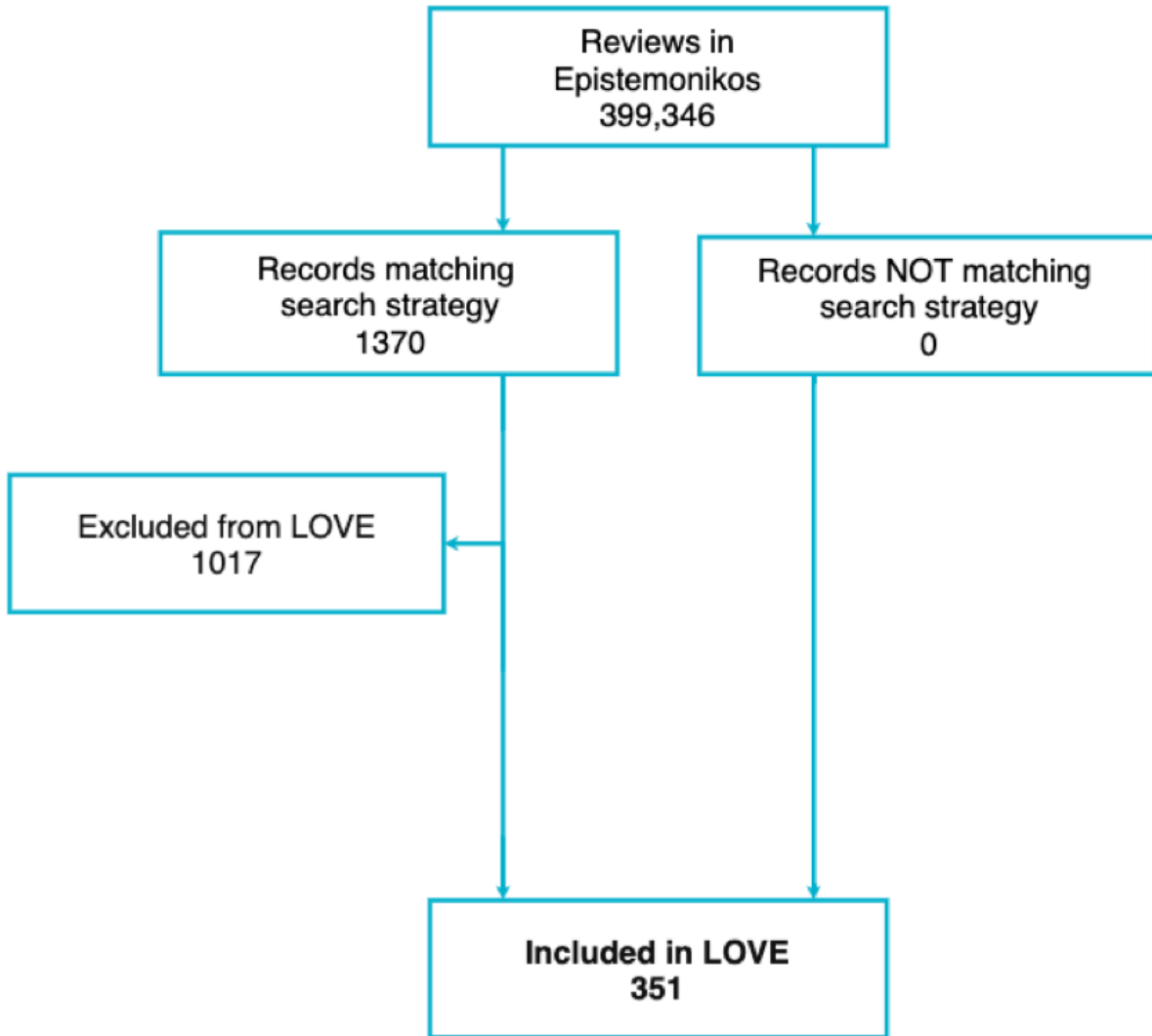
EPPI-Centre Evidence Library

<http://eppi.ioe.ac.uk/cms/Default.aspx?tabid=56>

((tooth OR teeth OR dental) AND (missing OR loss OR lost)) OR edentul* All records in chronological list (<http://eppi.ioe.ac.uk/cms/Default.aspx?tabid=62>)



APÉNDICE 2. DIAGRAMA DE FLUJO PRISMA



APÉNDICE 3. REFERENCIAS SELECCIONADAS

1. Papaspyridakos P, Mokti M, Chen CJ, Benic GI, Gallucci GO, Chronopoulos V. Implant and prosthodontic survival rates with implant fixed complete dental prostheses in the edentulous mandible after at least 5 years: a systematic review. *Clinical implant dentistry and related research*. 2014;16(5):705-17. www.epistemonikos.org/documents/01862007319e86a8a0528cd3fee0f9b5b6c4d387
2. Borg P, Puryer J, McNally L, O'Sullivan D. The Overall Survival, Complication-Free Survival, and Related Complications of Combined Tooth-Implant Fixed Partial Dentures: A Literature Review. *Dentistry journal*. 2016;4(2). www.epistemonikos.org/documents/02f01d9fa6e05d930d487fd0fe33749b787f6003
3. Hanioka T, Ojima M, Tanaka K, Matsuo K, Sato F, Tanaka H. Causal assessment of smoking and tooth loss: a systematic review of observational studies. *BMC public health*. 2011;11(1):221. www.epistemonikos.org/documents/0427c6ba758f8f4f84d059a8645bf17a969bd6b2
4. Barbato, Paulo Roberto, Peres, Karen Glazer. Contextual socioeconomic determinants of tooth loss in adults and elderly: a systematic review. *Rev Bras Epidemiol*. 2015;18(2):357-371. www.epistemonikos.org/documents/046c94658b711db3adc596c7a23a0c7af7181808
5. Gonçalves TM, Bortolini S, Martinolli M, Alfenas BF, Peruzzo DC, Natali A, Berzaghi A, Garcia RC. Long-term Short Implants Performance: Systematic Review and Meta-Analysis of the Essential Assessment Parameters. *Brazilian dental journal*. 2015;26(4):325-36. www.epistemonikos.org/documents/05c49d79280e57bdd13bb842c0af7f2bfe7f4594
6. Dholam KP, Gurav SV. Dental implants in irradiated jaws: a literature review. *Journal of cancer research and therapeutics*. 2012;8 Suppl 1(Suppl 1):S85-93. www.epistemonikos.org/documents/0688347717ac65e304bb2f845ae6ba785db3ec4e
7. Alrabiah M. Comparison of survival rate and crestal bone loss of narrow diameter dental implants versus regular dental implants: A systematic review and meta-analysis. *Journal of investigative and clinical dentistry*. 2019;10(1):e12367. www.epistemonikos.org/documents/0695bfa17e8e0fcb18b6f433ba691afb309d75b7
8. Gallucci GO, Morton D, Weber HP. Loading protocols for dental implants in edentulous patients. *The International journal of oral & maxillofacial implants*. 2009;24 Suppl:132-46. www.epistemonikos.org/documents/0751fa9a35d935cc2524009a9d136b35b119352f
9. Chambrone L, Mandia J, Shibli JA, Romito GA, Abrahao M. Dental implants installed in irradiated jaws: a systematic review. *Journal of dental research*. 2013;92(12 Suppl):119S-30S. www.epistemonikos.org/documents/077acc73548c55061d558c17b4d381a8df4f53c7
10. Esposito M, Grusovin MG, Willings M, Coulthard P, Worthington HV. The effectiveness of immediate, early, and conventional loading of dental implants: a Cochrane systematic review of randomized controlled clinical trials. *The International journal of oral & maxillofacial implants*. 2008;22(6):893-904. www.epistemonikos.org/documents/0a089c0c3bd9ca51d511200c81db710c8ee8c443
11. Fang WL, Jiang MJ, Gu BB, Wei YM, Fan SN, Liao W, Zheng YQ, Liao SW, Xiong Y, Li Y, Xiao SH, Liu J. Tooth loss as a risk factor for dementia: systematic review and meta-analysis of 21 observational studies. *BMC psychiatry*. 2018;18(1):345. www.epistemonikos.org/documents/0a40798cb5865b80a7badd32b1a0758c8351b3dc
12. Khzam N, Arora H, Kim P, Fisher A, Mattheos N, Ivanovski S. A Systematic Review of Soft Tissue Alterations and Aesthetic Outcomes Following Immediate Implant Placement and Restoration of Single Implants in the Anterior Maxilla. *Journal of periodontology*. 2015;86(12):1-15. www.epistemonikos.org/documents/0a468f332cf0ddee99717c3abb351fa3be3cc499
13. Zygogiannis K, Wismeijer D, Aartman IH, Osman RB. A Systematic Review on Immediate Loading of Implants Used to Support Overdentures Opposed by Conventional Prostheses: Factors That Might Influence Clinical Outcomes. *The International journal of oral & maxillofacial implants*. 2016;31(1):63-72. www.epistemonikos.org/documents/0b98cf09ab6b9a5deea0ff48adac7c41667ea379
14. Fokas G, Vaughn VM, Scarfe WC, Bornstein MM. Accuracy of linear measurements on CBCT images related to presurgical implant treatment planning: A systematic review. *Clinical oral implants research*. 2018;29 Suppl 16:393-415. www.epistemonikos.org/documents/0bdfd41350b472fd7d0593ef2f0249a219995540
15. Klein MO, Schiegnitz E, Al-Nawas B. Systematic Review on Success of Narrow-Diameter Dental Implants. *The International journal of oral & maxillofacial implants*. 2014;29 Suppl:43-54. www.epistemonikos.org/documents/0bfd002092e86bd611de0c0f9db1198adb30c6f9
16. McLister C, Donnelly M, Cardwell CR, Moore C, O'Neill C, Brocklehurst P, McKenna G. Effectiveness of prosthodontic interventions and survival of remaining teeth in adult patients with shortened

- dental arches - a systematic review. *Journal of dentistry*. 2018;78:31-39. www.epistemonikos.org/documents/0c6498103d0dad4a3b9636beb8f764283682765e
17. Papageorgiou SN, Eliades T, Hämmerle CHF. Frequency of infraposition and missing contact points in implant-supported restorations within natural dentitions over time: A systematic review with meta-analysis. *Clinical oral implants research*. 2018;29 Suppl 18:309-325. www.epistemonikos.org/documents/0c732a6865bcd54efb2c387bdded208d6afa9332
 18. Sanz I, Garcia-Gargallo M, Herrera D, Martin C, Figuero E, Sanz M. Surgical protocols for early implant placement in post-extraction sockets: a systematic review. *Clinical oral implants research*. 2012;23(S5):67-79. www.epistemonikos.org/documents/0c801338387675344561885a2754ab8a4dc259e7
 19. Alvim-Pereira F, Montes CC, Mira MT, Trevilatto PC. Genetic susceptibility to dental implant failure: a critical review. *The International journal of oral & maxillofacial implants*. 2008;23(3):409-16. www.epistemonikos.org/documents/0d729e7703680f5da219a48088e537f35e4c08e6
 20. Schimmel M, Srinivasan M, Herrmann FR, Müller F. Loading Protocols for Implant-Supported Overdentures in the Edentulous Jaw: A Systematic Review and Meta-Analysis. *The International journal of oral & maxillofacial implants*. 2014;29 Suppl:271-86. www.epistemonikos.org/documents/0db836054d718f984b16eab89a8b73310b4ad883
 21. Lemos CA, de Souza Batista VE, Almeida DA, Santiago Júnior JF, Verri FR, Pellizzer EP. Evaluation of cement-retained versus screw-retained implant-supported restorations for marginal bone loss: A systematic review and meta-analysis. *The Journal of prosthetic dentistry*. 2016;115(4):419-27. www.epistemonikos.org/documents/0dba171f13aa56c068cc04226010bd975c3a4bd1
 22. Marco Esposito, Maria Gabriella Grusovin, Pietro Felice, Georgios Karatzopoulos, Helen V Worthington, Paul Coulthard. Interventions for replacing missing teeth: horizontal and vertical bone augmentation techniques for dental implant treatment. *Cochrane Database of Systematic Reviews*. 2009;(4):CD003607. www.epistemonikos.org/documents/0e411684394111869f2381d2657b1c7feade0758
 23. Moraschini V, Velloso G, Luz D, Cavalcante DM, Barboza Edos S. Fixed Rehabilitation of Edentulous Mandibles Using 2 to 4 Implants: A Systematic Review. *Implant dentistry*. 2016;25(3):435-44. www.epistemonikos.org/documents/0fb7c6741b95ad51b176d19b4afcb252ac05ab12
 24. Zhao D, Wu Y, Xu C, Zhang F. Immediate dental implant placement into infected vs. non-infected sockets: a meta-analysis. *Clinical oral implants research*. 2016;27(10):1290-1296. www.epistemonikos.org/documents/10274caae66f65428e524cfa547397b61b653404
 25. Papaspyridakos P, Chen CJ, Chuang SK, Weber HP. Implant loading protocols for edentulous patients with fixed prostheses: a systematic review and meta-analysis. *The International journal of oral & maxillofacial implants*. 2014;29 Suppl:256-70. www.epistemonikos.org/documents/102f18886af8cb7707827042e5593dfb1e4eaedf
 26. Poggio, Carlo E, Ercoli, Carlo, Rispoli, Lorena, Maiorana, Carlo, Esposito, Marco. Metal-free materials for fixed prosthodontic restorations. *Cochrane Database of Systematic Reviews*. 2017;12(12):CD009606. www.epistemonikos.org/documents/10e57c2739659286b84a7d1889472ee6aa18dd99
 27. Sailer I, Pjetursson BE, Zwahlen M, Hämmerle CH. A systematic review of the survival and complication rates of all-ceramic and metal-ceramic reconstructions after an observation period of at least 3 years. Part II: Fixed dental prostheses. *Clinical oral implants research*. 2007;18 Suppl 3(SUPPL. 3):86-96. www.epistemonikos.org/documents/114ac6d15b768dab1ba0243dac80aa3318001c88
 28. Papaspyridakos P, Chen CJ, Gallucci GO, Doukoudakis A, Weber HP, Chronopoulos V. Accuracy of Implant Impressions for Partially and Completely Edentulous Patients: A Systematic Review. *The International journal of oral & maxillofacial implants*. 2014;29(4):836-45. www.epistemonikos.org/documents/1156d8a579f3669d17461510f4109c96b271c440
 29. Kroll P, Hou L, Radaideh H, Sharifi N, Han PP, Mulligan R, Enciso R. Oral health-related outcomes in edentulous patients treated with mandibular implant-retained dentures versus complete dentures: Systematic review with meta-analyses. *The Journal of oral implantology*. 2018;44(4):313-324. www.epistemonikos.org/documents/11d1500a0c7b967030e6640548d3797545f6c3a4
 30. Duan DH, Fu JH, Qi W, Du Y, Pan J, Wang HL. Graft-Free Maxillary Sinus Floor Elevation: A Systematic Review and Meta-Analysis. *Journal of periodontology*. 2017;88(6):1-23. www.epistemonikos.org/documents/11ebd4a9b5aba2182a5b458ef6ec23c47ee57682
 31. Ong CT, Ivanovski S, Needleman IG, Retzepi M, Moles DR, Tonetti MS, Donos N. Systematic review of implant outcomes in treated periodontitis subjects. *Journal of clinical periodontology*. 2008;35(5):438-62. www.epistemonikos.org/documents/122e090850082a1b2bf14c5744089391576f069e

32. Cheng F, Zhang M, Wang Q, Xu H, Dong X, Gao Z, Chen J, Wei Y, Qin F. Tooth loss and risk of cardiovascular disease and stroke: A dose-response meta analysis of prospective cohort studies. *PloS one*. 2018;13(3):e0194563.
www.epistemonikos.org/documents/126cdb952405ab6cb9edbeba7d0e36ef1ba9ea34
33. Wang Y, He J, Decker AM, Hu JC, Zou D. Clinical outcomes of implant therapy in ectodermal dysplasia patients: a systematic review. *International journal of oral and maxillofacial surgery*. 2016;45(8):1035-43.
www.epistemonikos.org/documents/12d3f3e353bcd90b90469cd616ea6043afa6347c
34. Esposito M, Grusovin MG, Coulthard P, Thomsen P, Worthington HV. A 5-year follow-up comparative analysis of the efficacy of various osseointegrated dental implant systems: a systematic review of randomized controlled clinical trials. *The International journal of oral & maxillofacial implants*. 2005;20(4):557-68.
www.epistemonikos.org/documents/15f5eabfda2f52d16bcb2ab25b27b839ccdb142d
35. Chrcanovic BR, Albrektsson T, Wennerberg A. Dental implants inserted in fresh extraction sockets versus healed sites: A systematic review and meta-analysis. *Journal of dentistry*. 2015;43(1):16-41. www.epistemonikos.org/documents/16426bcfd7396271150b8799405669a418b5f096
36. Ali Z, Baker SR, Shahrbaf S, Martin N, Vettore MV. Oral health-related quality of life after prosthodontic treatment for patients with partial edentulism: A systematic review and meta-analysis. *The Journal of prosthetic dentistry*. 2019;121(1):59-59.
www.epistemonikos.org/documents/1884b3141e4430a40778740112038cfcb57215fe
37. CRUZ, Ronaldo Silva, LEMOS, Cleidiel Aparecido de Araújo, BATISTA, Victor Eduardo de Souza, OLIVEIRA, Hiskell Francine Fernandes e, GOMES, Jéssica Marcela de Luna, PELLIZZER, Eduardo Piza, VERRI, Fellippo Ramos. Short implants versus longer implants with maxillary sinus lift. A systematic review and meta-analysis. *Braz. oral res. (Online)*. 2018;32:e86-e86.
www.epistemonikos.org/documents/1994888eae813a0d7d18439fa4248d1f50f13b49
38. Barrachina-Diez JM, Tashkandi E, Stampf S, Att W. Long-Term Outcome of One-Piece Implants. Part I: Implant Characteristics and Loading Protocols. A Systematic Literature Review with Meta-Analysis. *The International journal of oral & maxillofacial implants*. 2013;28(2):503-18.
www.epistemonikos.org/documents/1abcd1c94b4286f0c46337cad34e30322f4df8b
39. Wittneben JG, Millen C, Brägger U. Clinical Performance of Screw- Versus Cement-Retained Fixed Implant-Supported Reconstructions- A Systematic Review. *The International journal of oral & maxillofacial implants*. 2014;29 Suppl:84-98.
www.epistemonikos.org/documents/1b283e1864485c74e9019f03a809d8f36998f599
40. Grusovin MG, Coulthard P, Worthington HV, George P, Esposito M. Interventions for replacing missing teeth: maintaining and recovering soft tissue health around dental implants. *Cochrane database of systematic reviews (Online)*. 2010;(8):CD003069.
www.epistemonikos.org/documents/1bfab9c57f71233bf89283f2ef4c2366f0d4cc1d
41. Atieh MA, Alsabeeha N, Duncan WJ. Stability of tapered and parallel-walled dental implants: A systematic review and meta-analysis. *Clinical implant dentistry and related research*. 2018;20(4):634-645.
www.epistemonikos.org/documents/1d506325a099d40e723bbfc363e2fd88e6c0fb8d
42. Goodacre C, Goodacre B. Fixed vs removable complete arch implant prostheses: A literature review of prosthodontic outcomes. *European journal of oral implantology*. 2017;10 Suppl 1:13-34.
www.epistemonikos.org/documents/1d847407ff5a517220dcb82a17578ea3d0af55ca
43. Al Amri MD, Kellesarian SV. Crestal Bone Loss Around Adjacent Dental Implants Restored with Splinted and Nonsplinted Fixed Restorations: A Systematic Literature Review. *Journal of prosthodontics : official journal of the American College of Prosthodontists*. 2017;26(6):495-501.
www.epistemonikos.org/documents/1eb35e2712467579a9b684e9dd773ca806c252a3
44. Sohrabi K, Mushantat A, Esfandiari S, Feine J. How successful are small-diameter implants? A literature review. *Clinical oral implants research*. 2012;23(5):515-25.
www.epistemonikos.org/documents/1ee5cdebfb0d1db8aa9f780c8efdb3298f18a70b
45. Mac Giolla Phadraig C, Nunn J, McCallion P, McCarron M. Prevalence of edentulism among adults with intellectual disabilities: A narrative review informed by systematic review principles. *Special care in dentistry : official publication of the American Association of Hospital Dentists, the Academy of Dentistry for the Handicapped, and the American Society for Geriatric Dentistry*. 2018;38(4):191-200.
www.epistemonikos.org/documents/1fcdab991adfbfc4ef08c708a1d2e944f44de37b
46. Zen Filho, Edson Virgilio, Pavan, Angelo José, Farah, Gustavo Jacobucci, Camarini, Edevaldo Tadeu, Iwaki Filho, Liogi. Alveolar ridge augmentation with homogenous bone block: a systematic review. *Rev. dental press periodontia implantol*. 2011;5(1):47-59.
www.epistemonikos.org/documents/1fe3aaf89dd3259cb9a8acb0ab66e68136ec9945

47. Papaspyridakos P, Chen CJ, Chuang SK, Weber HP, Gallucci GO. A Systematic Review of Biologic and Technical Complications with Fixed Implant Rehabilitations for Edentulous Patients. *The International journal of oral & maxillofacial implants*. 2012;27(1):102-10. www.epistemonikos.org/documents/2064c4b8abf0f64f7c7a8f359411852f423c2daa
48. Barbato PR, Peres KG. Contextual socioeconomic determinants of tooth loss in adults and elderly: a systematic review. *Revista brasileira de epidemiologia = Brazilian journal of epidemiology*. 2015;18(2):357-71. www.epistemonikos.org/documents/218aa3eafd7386aed06e4641bec07339e15e0131
49. Apaza Alccayhuaman KA, Soto-Peñaloza D, Nakajima Y, Papageorgiou SN, Botticelli D, Lang NP. Biological and technical complications of tilted implants in comparison with straight implants supporting fixed dental prostheses. A systematic review and meta-analysis. *Clinical oral implants research*. 2018;29 Suppl 18:295-308. www.epistemonikos.org/documents/21a590eb83013d0515601ef89c0e32bdc703c18a
50. Storelli S, Del Fabbro M, Scanferla M, Palandrani G, Romeo E. Implant supported cantilevered fixed dental rehabilitations in partially edentulous patients: Systematic review of the literature. Part I. *Clinical oral implants research*. 2018;29 Suppl 18:253-274. www.epistemonikos.org/documents/22b95feec8ae6bc6638cc7cf7c9e9d28ab16dab7
51. Niederman R. Causal association between smoking and tooth loss is highly likely. *Evidence-based dentistry*. 2011;12(3):77. www.epistemonikos.org/documents/23c2538d87243a9d1df28d07ec8e9e4d37538568
52. Rakhshan V, Rakhshan H. Meta-analysis and systematic review of the number of non-syndromic congenitally missing permanent teeth per affected individual and its influencing factors. *European journal of orthodontics*. 2016;38(2):170-7. www.epistemonikos.org/documents/247d6f0d2b38dfcee9f372dd9526d6677311b494
53. Sadighi Shamami M, Sadighi Shamami M, Amini S. Periodontal Disease and Tooth Loss as Risks for Cancer: A Systematic Review of the Literature. *Iranian journal of cancer prevention*. 2011;4(4):189-98. www.epistemonikos.org/documents/2484d3d00d6f5ec49b007285cb08ad69537e2a46
54. Sánchez-Ayala A, Lagravère MO, Gonçalves TM, Lucena SC, Barbosa CM. Nutritional effects of implant therapy in edentulous patients—a systematic review. *Implant dentistry*. 2010;19(3):196-207. www.epistemonikos.org/documents/26088504696f2d5279c32f0d9d7e5cd513cecef02
55. de Almeida EO, Filho HG, Goiatto MC. The use of transitional implants to support provisional prostheses during the healing phase: a literature review. *Quintessence international (Berlin, Germany : 1985)*. 2011;42(1):19-24. www.epistemonikos.org/documents/2634a54b9b982fac23562f8128a5a5bdb991abb2
56. Knoernschild KL. Early survival of single-tooth implants in the esthetic zone may be predictable despite timing of implant placement or loading. *The journal of evidence-based dental practice*. 2012;12(3 Suppl):209-12. www.epistemonikos.org/documents/2721df3777cbc94df45d945e721ebb121c9a0596
57. Boven GC, Raghoobar GM, Vissink A, Meijer HJ. Improving masticatory performance, bite force, nutritional state and patient's satisfaction with implant overdentures: a systematic review of the literature. *Journal of oral rehabilitation*. 2015;42(3):220-33. www.epistemonikos.org/documents/2784d8bd1c301ca50ade93bb18f09f7cca1188aa
58. Alqutaibi AY, Esposito M, Algabri R, Alfahad A, Kaddah A, Farouk M, Alsourori A. Single vs two implant-retained overdentures for edentulous mandibles: a systematic review. *European journal of oral implantology*. 2017;10(3):243-261. www.epistemonikos.org/documents/27d6b9ab3427d8a9440b25e4b1a7deac64be235c
59. Mezzomo, Luis André, Mardas, Nikos, Donos, Nikolaos, Shinkai, Rosemary Sadami. Alveolar ridge preservation after dental extraction and before implant placement: a literature review. *Rev. odontol. ciênc*. 2011;26(1):77-83. www.epistemonikos.org/documents/284fb398c7f253ae942030ca9e29abde57051a72
60. Ata-Ali J, Ata-Ali F, Di-Benedetto N, Bagán L, Bagán JV. Does HIV infection have an impact upon dental implant osseointegration? A systematic review. *Medicina oral, patologia oral y cirugía bucal*. 2015;20(3):e347-56. www.epistemonikos.org/documents/2874d75fece19aa7b606fa4e9b4b2b4e218cad8f
61. Bassir SH, El Kholy K, Chen CY, Lee KH, Intini G. Outcome of early dental implant placement versus other dental implant placement protocols: A systematic review and meta-analysis. *Journal of periodontology*. 2019;90(5):493-506. www.epistemonikos.org/documents/2907c61ac491effac4d465b86d5f3def999e8aca

62. De Bruyn H, Raes S, Matthys C, Cosyn J. The current use of patient-centered/reported outcomes in implant dentistry: a systematic review. *Clinical oral implants research*. 2015;26 Suppl 11:45-56. www.epistemonikos.org/documents/2910a30e4e71d6071533e7e02711a63f1672c5aa
63. Van der Weijden GA, van Bommel KM, Renvert S, Department of Periodontology, Academic Center for Dentistry Amsterdam, Amsterdam, The Netherlands, ga.vd.weijden@acta.nl. Implant therapy in partially edentulous, periodontally compromised patients: a review. *Journal of Clinical Periodontology*. 2005;32(5):506-511. www.epistemonikos.org/documents/2924e4d26bf027284f66654e74ec9e39ce49cf85
64. Sanz-Sánchez I, Sanz-Martín I, Figuero E, Sanz M. Clinical efficacy of immediate implant loading protocols compared to conventional loading depending on the type of the restoration: a systematic review. *Clinical oral implants research*. 2015;26(8):964-82. www.epistemonikos.org/documents/2b3f439c5fa6fd629679f2e4f2c63f61eabf3c92
65. Riben C, Thor A. The Maxillary Sinus Membrane Elevation Procedure: Augmentation of Bone around Dental Implants without Grafts-A Review of a Surgical Technique. *International journal of dentistry*. 2012;2012:105483. www.epistemonikos.org/documents/2b96652a621850ed47c9186b65e540e612b4586a
66. Manfredini D, Poggio CE, Lobbezoo F. Is bruxism a risk factor for dental implants? A systematic review of the literature. *Clinical implant dentistry and related research*. 2014;16(3):460-9. www.epistemonikos.org/documents/2cf179cb93a5f1f953e2548c4b0ea2ad160f91a7
67. von der Gracht I, Derks A, Haselhuhn K, Wolfart S. EMG correlations of edentulous patients with implant overdentures and fixed dental prostheses compared to conventional complete dentures and dentates: a systematic review and meta-analysis. *Clinical oral implants research*. 2017;28(7):765-773. www.epistemonikos.org/documents/2da5d8bb8e6d828d4525cb6ec0a82b848fa571bb
68. Wang F, Wu Y, Zou D, Wang G, Kaigler D. Clinical outcomes of dental implant therapy in alveolar cleft patients: a systematic review. *The International journal of oral & maxillofacial implants*. 2014;29(5):1098-1105. www.epistemonikos.org/documents/2e561b94f9d3915d7f0f5948066ccb024b616bb0
69. Chrcanovic BR, Albrektsson T, Wennerberg A. Smoking and dental implants: a systematic review and meta-analysis. *Journal of dentistry*. 2015;43(5):487-98. www.epistemonikos.org/documents/3049c9f8e5cedee030a4a25266f3514200e265b2
70. Faggion CM, Giannakopoulos NN, Listl S. How strong is the evidence for the need to restore posterior bounded edentulous spaces in adults? Grading the quality of evidence and the strength of recommendations. *Journal of dentistry*. 2011;39(2):108-16. www.epistemonikos.org/documents/307920ff6a07bf0a48ec428812815cc176b58db0
71. Chrcanovic B.R., Albrektsson T., Wennerberg A.. Dental implants in irradiated versus nonirradiated patients: A meta-analysis. *Head and Neck*. 2016;38(3):448-481. www.epistemonikos.org/documents/314c809eab4411134448575f34afe3eea7c44477
72. Zeng XT, Luo W, Huang W, Wang Q, Guo Y, Leng WD. Tooth loss and head and neck cancer: a meta-analysis of observational studies. *PloS one*. 2013;8(11):e79074. www.epistemonikos.org/documents/34105cbf47749693b937437ebf854e78cc6c0421
73. Grütter L, Belser UC. Implant loading protocols for the partially edentulous esthetic zone. *The International journal of oral & maxillofacial implants*. 2009;24 Suppl:169-79. www.epistemonikos.org/documents/341c37124b168fffee47ce9291be7cf9ab6725a6
74. Kim KK, Sung HM. Outcomes of dental implant treatment in patients with generalized aggressive periodontitis: a systematic review. *The journal of advanced prosthodontics*. 2012;4(4):210-7. www.epistemonikos.org/documents/352d281e2cf44fc03e765bb65eeaa816a09f415a
75. Goiato MC, Sônego MV, Pellizzer EP, Gomes JML, da Silva EVF, Dos Santos DM. Clinical outcome of removable prostheses supported by mini dental implants. A systematic review. *Acta odontologica Scandinavica*. 2018;76(8):1-10. www.epistemonikos.org/documents/3655dc3cf411b985934367f6bfbc80399ce84d7d
76. Kotsovilis S, Fourmousis I, Karoussis IK, Bamia C. A systematic review and meta-analysis on the effect of implant length on the survival of rough-surface dental implants. *Journal of periodontology*. 2009;80(11):1700-18. www.epistemonikos.org/documents/36be5916dd707d16eba60a8b50ff70f16f563974
77. Chrcanovic, B. R., Albrektsson, T., Wennerberg, A.. Turned versus anodised dental implants: a meta-analysis. *Journal of Oral Rehabilitation*. 2016;43(9):716-728. www.epistemonikos.org/documents/372c40309d631cee47f0e0cd14faf4d0818ad418
78. Heydecke G, Zwahlen M, Nicol A, Nisand D, Payer M, Renouard F, Grohmann P, Mühlemann S, Joda T. What is the optimal number of implants for fixed reconstructions: a systematic review. *Clinical*

- oral implants research. 2012;23 Suppl 6(SUPPL.6):217-28.
www.epistemonikos.org/documents/374c866a8b2ad53dac54f58d483b9cb8a0e6c258
79. Al Amri MD. Crestal bone loss around submerged and nonsubmerged dental implants: A systematic review. *The Journal of prosthetic dentistry*. 2016;115(5):564-570.e1.
www.epistemonikos.org/documents/37b4e51ba5ec1b04ddedc8261797a53ee9bc1cdd
80. Chrcanovic BR, Albrektsson T, Wennerberg A. Immediate nonfunctional versus immediate functional loading and dental implant failure rates: a systematic review and meta-analysis. *Journal of dentistry*. 2014;42(9):1052-9.
www.epistemonikos.org/documents/3892c586f9b5a41c45aed3f33e516b717ab28009
81. Kutkut A, Bertoli E, Frazer R, Pinto-Sinai G, Fuentealba Hidalgo R, Studts J. A systematic review of studies comparing conventional complete denture and implant retained overdenture. *Journal of prosthodontic research*. 2018;62(1):1-9.
www.epistemonikos.org/documents/38b672064706f957a7f7d8a020be90620bb1836f
82. Laurell L, Lundgren D. Marginal bone level changes at dental implants after 5 years in function: a meta-analysis. *Clinical implant dentistry and related research*. 2011;13(1):19-28.
www.epistemonikos.org/documents/3b6eb7e39c9b2021168cb33f6bf4e04aea654ce6
83. Nogueira TE, Dias DR, Leles CR. Mandibular complete denture versus single-implant overdenture: a systematic review of patient-reported outcomes. *Journal of oral rehabilitation*. 2017;44(12):1004-1016.
www.epistemonikos.org/documents/3c162b4103f151ae480be8789a2edd0d683a1f4f
84. Menini M, Signori A, Tealdo T, Bevilacqua M, Pera F, Ravera G, Pera P. Tilted implants in the immediate loading rehabilitation of the maxilla: a systematic review. *Journal of dental research*. 2012;91(9):821-7.
www.epistemonikos.org/documents/3c29bc41a29ddf733b32b19e1491be53a4671695
85. Atieh MA, Ibrahim HM, Atieh AH. Platform switching for marginal bone preservation around dental implants: a systematic review and meta-analysis. *Journal of periodontology*. 2010;81(10):1350-66.
www.epistemonikos.org/documents/3c3a8e35fb46776326f8704c1b471dae978ef68b
86. Chiapasco M, Casentini P, Zaniboni M. Bone augmentation procedures in implant dentistry. *The International journal of oral & maxillofacial implants*. 2009;24 Suppl:237-59.
www.epistemonikos.org/documents/3dfa12b70fb26ce8250c243819788670ef0f504a
87. de Groot RJ, Oomens MAEM, Forouzanfar T, Schulten EAJM. Bone augmentation followed by implant surgery in the edentulous mandible: a systematic review. *Journal of oral rehabilitation*. 2018;45(4):334-343.
www.epistemonikos.org/documents/3e17fb38d032459f2fc08bf7d9205cea2205fa0d
88. Almeida D, Vianna K, Arriaga P, Moraschini V. Dental implants in Sjögren's syndrome patients: A systematic review. *PloS one*. 2017;12(12):e0189507.
www.epistemonikos.org/documents/3e1da4bc62213007a0359999d03a6ac7b37fa519
89. Kashbour WA, Rousseau NS, Ellis JS, Thomason JM. Patients' experiences of dental implant treatment: A literature review of key qualitative studies. *Journal of dentistry*. 2015;43(7):789-97.
www.epistemonikos.org/documents/3e5ba1a055a9d49cb7871a1185bfe3da57d5e38b
90. Katsoulis J, Takeichi T, Sol Gaviria A, Peter L, Katsoulis K. Misfit of implant prostheses and its impact on clinical outcomes. Definition, assessment and a systematic review of the literature. *European journal of oral implantology*. 2017;10 Suppl 1:121-138.
www.epistemonikos.org/documents/4116816200c8cc4397d0544518f45b026897ebf9
91. Fueki K, Kimoto K, Ogawa T, Garrett NR, Removable Partial Denture Prosthodontics, Tokyo Medical and Dental University, Tokyo, Japan. kunfu.rpro@tmd.ac.jp. Effect of implant-supported or retained dentures on masticatory performance: a systematic review. *Journal of Prosthetic Dentistry*. 2007;98(6):470-477.
www.epistemonikos.org/documents/4325658d08fae6c4b8879691b21a50501f88bf65
92. Lund B, Hultin M, Tranaeus S, Naimi-Akbar A, Klinge B. Complex systematic review - Perioperative antibiotics in conjunction with dental implant placement. *Clinical oral implants research*. 2015;26 Suppl 11:1-14.
www.epistemonikos.org/documents/43baedde7d15eb1a20cdee5735960d91eba30a35
93. Abayev B, Juodzbaly G. Inferior Alveolar Nerve Lateralization and Transposition for Dental Implant Placement. Part II: a Systematic Review of Neurosensory Complications. *Journal of oral & maxillofacial research*. 2015;6(1):e3.
www.epistemonikos.org/documents/4414133b041384d00e82575649c93423e1f3d481
94. Passia N, Kern M. The single midline implant in the edentulous mandible: a systematic review. *Clinical oral investigations*. 2014;18(7):1719-24.
www.epistemonikos.org/documents/4446af1012c5b4fdb4edd51a1507342464ad88c2

95. Zen Filho EV, Tolentino ES, Silva Santos PS. Viability of dental implants in head and neck irradiated patients: A systematic review. *Head & neck*. 2016;38 Suppl 1:E2229-40. www.epistemonikos.org/documents/44740f8fbaa065eefe6e961edf96ed6f114daa45
96. Rocuzzo M, Bonino F, Gaudio L, Zwahlen M, Meijer HJ. What is the optimal number of implants for removable reconstructions? A systematic review on implant-supported overdentures. *Clinical oral implants research*. 2012;23 Suppl 6(SUPPL.6):229-37. www.epistemonikos.org/documents/468c152cbbe0570fd391f2aed6c10ea3d3f9f062
97. Moustafa Ali RM, Alqutaibi AY, El-Din Gomaa AS, Abdallah MF. Effect of Submerged vs Nonsubmerged Implant Placement Protocols on Implant Failure and Marginal Bone Loss: A Systematic Review and Meta-Analysis. *The International journal of prosthodontics*. 2018;31(1):15-22. www.epistemonikos.org/documents/468f2669a9d90c9aa23083f5dc0351da889a9989
98. de Medeiros RA, Pellizzer EP, Vechiato Filho AJ, Dos Santos DM, da Silva EV, Goiato MC. Evaluation of marginal bone loss of dental implants with internal or external connections and its association with other variables: A systematic review. *The Journal of prosthetic dentistry*. 2016;116(4):501-506.e5. www.epistemonikos.org/documents/476a9bd4e223540235b49c26b7f91adf59e6260d
99. Daly B, Thompsell A, Sharpling J, Rooney YM, Hillman L, Wanyonyi KL, White S, Gallagher JE. Evidence summary: the relationship between oral health and dementia. *British dental journal*. 2018;223(11):846-853. www.epistemonikos.org/documents/47b100092d58bbf161d45504ad45183cda337d4a
100. Delgado-Ruiz R, Romanos G. Potential Causes of Titanium Particle and Ion Release in Implant Dentistry: A Systematic Review. *International journal of molecular sciences*. 2018;19(11). www.epistemonikos.org/documents/4b8f7eca38b63456ff3daa3617e55bd29eede05b
101. Liddelow G, Klineberg I. Patient-related risk factors for implant therapy. A critique of pertinent literature. *Australian dental journal*. 2011;56(4):417-26; quiz 441. www.epistemonikos.org/documents/4c1238606504d2f6eb238fad31610a966a76f4c7
102. de N Dias FJ, Pecorari VGA, Martins CB, Del Fabbro M, Casati MZ. Short implants versus bone augmentation in combination with standard-length implants in posterior atrophic partially edentulous mandibles: systematic review and meta-analysis with the Bayesian approach. *International journal of oral and maxillofacial surgery*. 2019;48(1):90-96. www.epistemonikos.org/documents/4c7129959f34e54974746df9aac0ccb743a3aba1
103. Zancopé K, Abrão GM, Karam FK, Neves FD. Placement of a distal implant to convert a mandibular removable Kennedy class I to an implant-supported partial removable Class III dental prosthesis: A systematic review. *The Journal of prosthetic dentistry*. 2015;113(6):528-533.e3. www.epistemonikos.org/documents/4d9cac99ff0dfc56bb4cf39301755ea3632a37f6
104. Xu Y, Xie J. Comparison of the effects of mini-implant and traditional anchorage on patients with maxillary dentoalveolar protrusion: A systematic review. *The Angle orthodontist*. 2017;87(2):320-327. www.epistemonikos.org/documents/4df2789436e4325177052b3b1bc72fd530291ddc
105. Taschieri S, Corbella S, Saita M, Tsesis I, Del Fabbro M. Osteotome-Mediated Sinus Lift without Grafting Material: A Review of Literature and a Technique Proposal. *International journal of dentistry*. 2012;2012:849093. www.epistemonikos.org/documents/4e06503d16a5c6572ecbf2524ef9b614ff5f159d
106. Ahmed Elawady DM, Kaddah AF, Talaat Khalifa M. Single vs 2 Implants on Peri-implant Marginal Bone Level and Implant Failures in Mandibular Implant Overdentures: A Systematic Review With Meta-analysis. *The journal of evidence-based dental practice*. 2017;17(3):216-225. www.epistemonikos.org/documents/4edd7f49dace040e3901b7e0a02612bcb4597f47
107. Lulic M, Brägger U, Lang NP, Zwahlen M, Salvi GE. Ante's (1926) law revisited: a systematic review on survival rates and complications of fixed dental prostheses (FDPs) on severely reduced periodontal tissue support. *Clinical oral implants research*. 2007;18 Suppl 3(SUPPL. 3):63-72. www.epistemonikos.org/documents/501e5d061e875c699d135cfcadd75f41fef1bc80
108. Lee DW. Periodontitis and dental implant loss. *Evidence-based dentistry*. 2014;15(2):59-60. www.epistemonikos.org/documents/514c2b24a924c65ff1172593305acd2ac5c58ac0
109. Needleman I, Chin S, O'Brien T, Petrie A, Donos N. Systematic review of outcome measurements and reference group(s) to evaluate and compare implant success and failure. *Journal of clinical periodontology*. 2012;39 Suppl 12(SUPPL.12):122-32. www.epistemonikos.org/documents/51df73632d02d480199bb0c63f77a80904d45ed4
110. Romeo E, Ghisolfi M, Carmagnola D. Peri-implant diseases. A systematic review of the literature. *Minerva stomatologica*. 2004;53(5):215-30. www.epistemonikos.org/documents/55a5c4c0eef7d871a3709e55c3e288e9be696402

111. Chrcanovic BR, Albrektsson T, Wennerberg A. Platform switch and dental implants: A meta-analysis. *Journal of dentistry*. 2015;43(6):629-646. www.epistemonikos.org/documents/55c17a65609bb9da8fce285defef29e8d2b72a72
112. Fueki, Kenji, Yoshida, Eiko, Igarashi, Yoshimasa. A systematic review of prosthetic restoration in patients with shortened dental arches. *Japanese Dental Science Review*. 2011;47(2):167-174. www.epistemonikos.org/documents/55e0bbc589c194179c2c1925629662d83411e4d5
113. Nascimento GG, Leite FR, Conceição DA, Ferrúa CP, Singh A, Demarco FF. Is there a relationship between obesity and tooth loss and edentulism? A systematic review and meta-analysis. *Obesity reviews : an official journal of the International Association for the Study of Obesity*. 2016;17(7):587-98. www.epistemonikos.org/documents/55f402073a102016e082295d4e2257df3e5ffb66
114. Marco Esposito, Maria Gabriella Grusovin, Helen V Worthington. Interventions for replacing missing teeth: treatment of peri-implantitis. *Cochrane Database of Systematic Reviews*. 2012;1(1):CD004970. www.epistemonikos.org/documents/56222e27ec9c3b3caa3dde3963adc5c86a694833
115. Roehling S, Schlegel KA, Woelfler H, Gahlert M. Performance and outcome of zirconia dental implants in clinical studies: A meta-analysis. *Clinical oral implants research*. 2018;29 Suppl 16:135-153. www.epistemonikos.org/documents/56500189f0d8eb24659ec10c742b915ac8b012a3
116. Papaspyridakos P, De Souza A, Vazouras K, Gholami H, Pagni S, Weber HP. Survival rates of short dental implants (≤ 6 mm) compared with implants longer than 6 mm in posterior jaw areas: A meta-analysis. *Clinical oral implants research*. 2018;29 Suppl 16:8-20. www.epistemonikos.org/documents/5654163d710287ab26f910eb9d30f63f073c9a0e
117. Haro Adánez M, Nishihara H, Att W. A systematic review and meta-analysis on the clinical outcome of zirconia implant-restoration complex. *Journal of prosthodontic research*. 2018;62(4):397-406. www.epistemonikos.org/documents/567b3023e6559536211c1f6aa3f1830bd781b8d5
118. Sousa V, Mardas N, Farias B, Petrie A, Needleman I, Spratt D, Donos N. A systematic review of implant outcomes in treated periodontitis patients. *Clinical oral implants research*. 2016;27(7):787-844. www.epistemonikos.org/documents/5682f6d1b65e0335039faa7d1a95012685ae1b6a
119. Zhang L, Lyu C, Shang Z, Niu A, Liang X. Quality of Life of Implant-Supported Overdenture and Conventional Complete Denture in Restoring the Edentulous Mandible: A Systematic Review. *Implant dentistry*. 2017;26(6):945-950. www.epistemonikos.org/documents/56d968cae342605e12485c57dcbc2324b03bb32d
120. Thoma DS, Buranawat B, Hämmerle CH, Held U, Jung RE. Efficacy of soft tissue augmentation around dental implants and in partially edentulous areas: a systematic review. *Journal of clinical periodontology*. 2014;41 Suppl 15:S77-91. www.epistemonikos.org/documents/582d3fc53c3a690517f205ae9e4b94c66af56b11
121. Al-Thobity A, Kutkut A, Almas K. Microthreaded Implants and Crestal Bone Loss: A Systematic Review. *The Journal of oral implantology*. 2017;43(2):157-166. www.epistemonikos.org/documents/58a25964700ec94c634373bcb801bef2d0937808
122. Heidsieck DS, de Ruitter MH, de Lange J. Management of obstructive sleep apnea in edentulous patients: an overview of the literature. *Sleep & breathing = Schlaf & Atmung*. 2016;20(1):395-404. www.epistemonikos.org/documents/595a7643d59b4dffa0152d95ab9b0d08d567235e
123. Nordenram G, Davidson T, Gynther G, Helgesson G, Hultin M, Jemt T, Lekholm U, Nilner K, Norlund A, Rohlin M, Sunnegårdh-Grönberg K, Tranæus S. Qualitative studies of patients' perceptions of loss of teeth, the edentulous state and prosthetic rehabilitation: a systematic review with meta-synthesis. *Acta odontologica Scandinavica*. 2013;71(3-4):937-51. www.epistemonikos.org/documents/5a666d850b4efd4d2c641fe96c759c0a68a9bdb1
124. Keshet N, Laviv A, Aframian DJ, Nadler C. Anterior mandibular rehabilitation causing chronic obstructive sialadenitis: ?A series of sialo-CBCT cases and literature review. *Quintessence international (Berlin, Germany : 1985)*. 2017;48(8):661-666. www.epistemonikos.org/documents/5b86d952485b3d956e9cc0e2014480ee97416a1f
125. Strassburger C, Kerschbaum T, Heydecke G. Influence of implant and conventional prostheses on satisfaction and quality of life: A literature review. Part 2: Qualitative analysis and

- evaluation of the studies. *The International journal of prosthodontics*. 2006;19(4):339-48. www.epistemonikos.org/documents/5ca7c21fe811c9e46421070a5da7da78fcbd7e13
126. Aglietta M, Siciliano VI, Zwahlen M, Brägger U, Pjetursson BE, Lang NP, Salvi GE. A systematic review of the survival and complication rates of implant supported fixed dental prostheses with cantilever extensions after an observation period of at least 5 years. *Clinical oral implants research*. 2009;20(5):441-51. www.epistemonikos.org/documents/5d120fe2674bf4e9e9b0024dd5bc1c784a0bf7e1
127. Gupta A, Felton DA, Jemt T, Koka S. Rehabilitation of Edentulism and Mortality: A Systematic Review. *Journal of prosthodontics : official journal of the American College of Prosthodontists*. 2019;28(5):526-535. www.epistemonikos.org/documents/5d6ff2394494e0464d2845892d39501258535a6c
128. Schley JS, Heussen N, Reich S, Fischer J, Haselhuhn K, Wolfart S. Survival probability of zirconia-based fixed dental prostheses up to 5 yr: a systematic review of the literature. *European journal of oral sciences*. 2010;118(5):443-50. www.epistemonikos.org/documents/5e07f6d56b5eea05576917366ebf714fa16ca3ec
129. Pjetursson BE, Tan WC, Zwahlen M, Lang NP. A systematic review of the success of sinus floor elevation and survival of implants inserted in combination with sinus floor elevation. *Journal of clinical periodontology*. 2008;35(8 Suppl):216-40. www.epistemonikos.org/documents/5e41654e25ac80830624071844822a3187e7e2c5
130. Zhang Q, Kreulen CM, Witter DJ, Creugers NH. Oral health status and prosthodontic conditions of Chinese adults: a systematic review. *International Journal of Prosthodontics*. 2007;20(6):567-572. www.epistemonikos.org/documents/5e89785ce42cb78584ba04851054ad2629142eb3
131. Starch-Jensen T, Nielsen HB. Prosthetic Rehabilitation of the Partially Edentulous Atrophic Posterior Mandible with Short Implants (≤ 8 mm) Compared with the Sandwich Osteotomy and Delayed Placement of Standard Length Implants (> 8 mm): a Systematic Review. *Journal of oral & maxillofacial research*. 2018;9(2):e2. www.epistemonikos.org/documents/5fdde4f6b08e7edae103e32ee40e5378641cceeef
132. Moraschini V, Barboza ES. The impact of diabetes on dental implant failure: a systematic review and meta-analysis. *International journal of oral and maxillofacial surgery*. 2016;45(10):1237-45. www.epistemonikos.org/documents/60697f10238536fd35395e11c6ee535acc69805
133. Garaicoa-Pazmiño C, Suarez F, Monje A, Catena A, Ortega-Oller I, Galindo-Moreno P, Wang HL. Influence of Crown-Implant Ratio Upon Marginal Bone Loss. A Systematic Review. *Journal of periodontology*. 2014;85(9):1214-21. www.epistemonikos.org/documents/615789b15df98eb4acca9c9eccf74c81c7ddf88e
134. Marco Esposito, Hassan Maghaireh, Maria Gabriella Grusovin, Ioannis Ziounas, Helen V Worthington. Interventions for replacing missing teeth: management of soft tissues for dental implants. *Cochrane Database of Systematic Reviews*. 2012;2(2):CD006697. www.epistemonikos.org/documents/61e7b43afe19a5e2a25e3bf828cf5ce39ecfd027
135. Wang RS, Hu XY, Gu WJ, Hu Z, Wei B. Tooth loss and risk of head and neck cancer: a meta-analysis. *PloS one*. 2013;8(8):e71122. www.epistemonikos.org/documents/61f8c11ec94d0ceaad420a825570f0b07fb45e3b
136. Sun HL, Huang C, Wu YR, Shi B. Failure rates of short (≤ 10 mm) dental implants and factors influencing their failure: a systematic review. *The International journal of oral & maxillofacial implants*. 2011;26(4):816-25. www.epistemonikos.org/documents/622625d0f039b8dd420b88cdfcd3ddd661c0195e
137. Chrcanovic BR, Albrektsson T, Wennerberg A. Bone Quality and Quantity and Dental Implant Failure: A Systematic Review and Meta-analysis. *The International journal of prosthodontics*. 2017;30(3):219-237. www.epistemonikos.org/documents/62eea527b63065376c981b4aaa6815159ae0fe46
138. de Mello JS, Faot F, Correa G, Chagas Júnior OL. Success rate and complications associated with dental implants in the incisive canal region: a systematic review. *International journal of oral and maxillofacial surgery*. 2017;46(12):1584-1591. www.epistemonikos.org/documents/64f5792d1fd350e4558fd2c5cb44b18f1c63ac43

139. Baig MR. Accuracy of Impressions of Multiple Implants in the Edentulous Arch: A Systematic Review. *The International journal of oral & maxillofacial implants*. 2014;29(4):869-80. www.epistemonikos.org/documents/652e9b8370fdc5431eefed939b7b8707276f9f78
140. Yao CJ, Cao C, Bornstein MM, Mattheos N. Patient-reported outcome measures of edentulous patients restored with implant-supported removable and fixed prostheses: A systematic review. *Clinical oral implants research*. 2018;29 Suppl 16:241-254. www.epistemonikos.org/documents/65ae8a8a7ac284c30eceedb5ac42c30fe5ad59f1
141. Esposito, M, Ardebili, Y, Worthington, H V, Murray-Curtis, L, Coulthard, P. Interventions for replacing missing teeth: different types of dental implants. *Cochrane Database of Systematic Reviews*. 2014;7(7):CD003815. www.epistemonikos.org/documents/6785be3e8183d178781450a152768df1802531a1
142. Esposito M, Grusovin MG, Rees J, Karasoulos D, Felice P, Alissa R, Worthington H, Coulthard P. Effectiveness of sinus lift procedures for dental implant rehabilitation: a Cochrane systematic review. *European journal of oral implantology*. 2010;3(1):7-26. www.epistemonikos.org/documents/67c8ff86d105dd1bb52c32db0e7197b79b61fffc
143. Romanos GE, Gupta B, Eckert SE. Distal Cantilevers and Implant Dentistry. *The International journal of oral & maxillofacial implants*. 2012;27(5):1131-6. www.epistemonikos.org/documents/69031c038061eb1649faf25a100663744370c2d7
144. Mamalis A, Markopoulou K, Kaloumenos K, Analitis A. Splinting osseointegrated implants and natural teeth in partially edentulous patients: a systematic review of the literature. *The Journal of oral implantology*. 2012;38(4):424-34. www.epistemonikos.org/documents/6970ccccd81c62559904d2cd18ab3a1633af2f54
145. Terheyden H, Wüsthoff F. Occlusal rehabilitation in patients with congenitally missing teeth-dental implants, conventional prosthetics, tooth autotransplants, and preservation of deciduous teeth-a systematic review. *International journal of implant dentistry*. 2015;1(1):30. www.epistemonikos.org/documents/698b41a5e7696477228034492c90ffa5dfad33ec
146. Grusovin MG, Coulthard P, Worthington HV, Esposito M. Maintaining and recovering soft tissue health around dental implants: a Cochrane systematic review of randomised controlled clinical trials. *European journal of oral implantology*. 2008;1(1):11-22. www.epistemonikos.org/documents/6bdb5ff3bb76530c862ca220e8b7affafee46a24
147. Shahmiri RA, Atieh MA. Mandibular Kennedy Class I implant-tooth-borne removable partial denture: a systematic review. *Journal of oral rehabilitation*. 2010;37(3):225-34. www.epistemonikos.org/documents/6bdd38917d2629ff48048fe064fd006d1330528b
148. Uehara PN, Matsubara VH, Igai F, Sesma N, Mukai MK, Araujo MG. Short Dental Implants (≤ 7 mm) Versus Longer Implants in Augmented Bone Area: A Meta-Analysis of Randomized Controlled Trials. *The open dentistry journal*. 2018;12:354-365. www.epistemonikos.org/documents/6c99c7df08363b62101d5a55930996984f3dd750
149. Jung RE, Zembic A, Pjetursson BE, Zwahlen M, Thoma DS. Systematic review of the survival rate and the incidence of biological, technical, and aesthetic complications of single crowns on implants reported in longitudinal studies with a mean follow-up of 5 years. *Clinical oral implants research*. 2012;23 Suppl 6(SUPPL.6):2-21. www.epistemonikos.org/documents/6d0c5d885a96690c8e5a7b4bcc24504573b9bba5
150. Jain JK, Sethuraman R, Chauhan S, Javiya P, Srivastava S, Patel R, Bhalani B. Retention failures in cement- and screw-retained fixed restorations on dental implants in partially edentulous arches: A systematic review with meta-analysis. *Journal of Indian Prosthodontic Society*. 2018;18(3):201-211. www.epistemonikos.org/documents/6d370c5c251352b86d0fc9878f726be222023fe1
151. Srinivasan M, Meyer S, Mombelli A, Müller F. Dental implants in the elderly population: a systematic review and meta-analysis. *Clinical oral implants research*. 2017;28(8):920-930. www.epistemonikos.org/documents/6d48f1099d8633e3c21b6047edff9610603d0a3f
152. Lambert FE, Weber HP, Susarla SM, Belser UC, Gallucci GO. Descriptive analysis of implant and prosthodontic survival rates with fixed implant-supported rehabilitations in the edentulous maxilla. *Journal of periodontology*. 2009;80(8):1220-30. www.epistemonikos.org/documents/6e25f91a4f6c39c6f3240be2ba445e0935562da5
153. Pjetursson BE, Thoma D, Jung R, Zwahlen M, Zembic A. A systematic review of the survival and complication rates of implant-supported fixed dental prostheses (FDPs) after a mean observation period of at least 5 years. *Clinical oral implants research*. 2012;23 Suppl

- 6(SUPPL.6):22-
38.www.epistemonikos.org/documents/6e5ccec810acaa4cdf5a6c2217c047826f018a2d
154. Bidra A, Rungruanganunt P, Gauthier M. Clinical outcomes of full arch fixed implant-supported zirconia prostheses: A systematic review. *European journal of oral implantology*. 2017;10 Suppl 1:35-45.
www.epistemonikos.org/documents/6ec61d4d562fd374a7a140108b5f86fc55a41fee
155. Warpeha W. Pitfalls in full mouth implant dentistry. Part one: Perceptions versus evidence in prosthodontic treatment planning; a limited literature review. *Northwest dentistry*. 2011;90(1):27-9, 31-3.
www.epistemonikos.org/documents/6f710b13a8d0ee8aa1ad440ec7f17a53349dbf6a
156. Li F, Hu HK, Chen JW, Liu ZP, Li GF, He SS, Zou SJ, Ye QS. Comparison of anchorage capacity between implant and headgear during anterior segment retraction. *The Angle orthodontist*. 2011;81(5):915-22.
www.epistemonikos.org/documents/6f74ebebfc3748ad11ee5fdadabc941f0737dc3
157. Fueki K, Baba K. Shortened dental arch and prosthetic effect on oral health-related quality of life: a systematic review and meta-analysis. *Journal of oral rehabilitation*. 2017;44(7):563-572.
www.epistemonikos.org/documents/718c85ae4f8343389876f161b0b5dda5ef281592
158. Chrcanovic BR, Albrektsson T, Wennerberg A. Bisphosphonates and dental implants: A meta-analysis. *Quintessence international (Berlin, Germany : 1985)*. 2016;47(4):329-42.
www.epistemonikos.org/documents/7271746b7dc0ef3722830ed1a1001f424765c6a8
159. Torabinejad M, Anderson P, Bader J, Brown LJ, Chen LH, Goodacre CJ, Kattadiyil MT, Kutsenko D, Lozada J, Patel R, Petersen F, Puterman I, White SN. Outcomes of root canal treatment and restoration, implant-supported single crowns, fixed partial dentures, and extraction without replacement: a systematic review. *The Journal of prosthetic dentistry*. 2007;98(4):285-311.
www.epistemonikos.org/documents/7365f9c689f247dd355bf4ea21323793482e2995
160. Ramanauskaite A, Baseviciene N, Wang HL, Tözüm TF. Effect of history of periodontitis on implant success: meta-analysis and systematic review. *Implant dentistry*. 2014;23(6):687-96.
www.epistemonikos.org/documents/74c385125320eefc6644d47a3bd8bd0463e15a8b
161. Al Amri MD. Influence of interimplant distance on the crestal bone height around dental implants: A systematic review and meta-analysis. *The Journal of prosthetic dentistry*. 2016;115(3):278-282.e1.
www.epistemonikos.org/documents/76c406d766ee0f713353525aa142acfc18779f3f
162. Mericske-Stern R, Worni A. Optimal number of oral implants for fixed reconstructions: a review of the literature. *European journal of oral implantology*. 2014;7(2):133-53.
www.epistemonikos.org/documents/783e541ae9dcafc60d18b6cb737d7cddb4f6e44
163. Pieralli S, Kohal RJ, Jung RE, Vach K, Spies BC. Clinical Outcomes of Zirconia Dental Implants: A Systematic Review. *Journal of dental research*. 2017;96(1):38-46.
www.epistemonikos.org/documents/78ca20d9731d22372e36cfd61063633a92672638
164. Gallucci GO, Hamilton A, Zhou W, Buser D, Chen S. Implant placement and loading protocols in partially edentulous patients: A systematic review. *Clinical oral implants research*. 2018;29 Suppl 16:106-134.
www.epistemonikos.org/documents/793dbb77dbee72eca62ad7dd0f9ee9dceb8c3a11
165. Gaewkhiew P, Sabbah W, Bernabé E. Does Tooth Loss affect Dietary Intake and Nutritional Status? A Systematic Review of Longitudinal Studies. *Journal of dentistry*. 2017;67:1-8.
www.epistemonikos.org/documents/7942cd3098f8764faa21d377257fc0ee3afc0d6d
166. Clementini M, Tiravia L, De Risi V, Vittorini Orgeas G, Mannocci A, de Sanctis M. Dimensional changes after immediate implant placement with or without simultaneous regenerative procedures. *Journal of clinical periodontology*. 2015;42(7):666-77.
www.epistemonikos.org/documents/7a5bc841151e035930288b5be878a0f4abb8e78f
167. Attard NJ, Zarb GA. Immediate and early implant loading protocols: a literature review of clinical studies. *The Journal of prosthetic dentistry*. 2005;94(3):242-58.
www.epistemonikos.org/documents/7be591001e451165e58a1024f814e0a473a8870a
168. Hua Ling Sun, Yan Ru Wu, Cui Huang, Bin Shi. Failure Rates of Short (≤ 10 mm) Dental Implants and Factors Influencing Their Failure: A Systematic Review. *International Journal of Oral & Maxillofacial Implants*. 2011;26(4):816-825.
www.epistemonikos.org/documents/7c18ebbf53c51c65d220bc099cf0c83dac0bd95a
169. Schiegnitz E, Al-Nawas B. Narrow-diameter implants: A systematic review and meta-analysis. *Clinical oral implants research*. 2018;29 Suppl 16:21-40.
www.epistemonikos.org/documents/7d16b33dca261a6654d8c2712f829c4b9747e639

170. Lemos CA, Verri FR, Batista VE, Júnior JF, Mello CC, Pellizzer EP. Overdenture prosthesis retained by mini dental implants: A systematic review. *Journal of dentistry*. 2017;57:4-13. www.epistemonikos.org/documents/7e1afe1a887f3304d97aa0aae444e0291132c51d
171. Chee WW, Mordohai N. Tooth-to-implant connection: a systematic review of the literature and a case report utilizing a new connection design. *Clinical implant dentistry and related research*. 2010;12(2):122-33. www.epistemonikos.org/documents/7e304dd66197e8e58d35f6393404bb0a58b4dff6
172. Alsabeeha N, Atieh M, Payne AG. Loading protocols for mandibular implant overdentures: a systematic review with meta-analysis. *Clinical implant dentistry and related research*. 2010;12 Suppl 1(SUPPL. 1):e28-38. www.epistemonikos.org/documents/813f81a7d161dd1e123a0feb9a00ff501235cabe
173. Palacios-Garzón N, Mauri-Obradors E, Roselló-LLabrés X, Estrugo-Devesa A, Jané-Salas E, López-López J. Comparison of Marginal Bone Loss Between Implants with Internal and External Connections: A Systematic Review. *The International journal of oral & maxillofacial implants*. 2018;33(3):580-589. www.epistemonikos.org/documents/81caff1d25450f89ff7aa2af49329eb6cdf2e321
174. Moraschini V, Velloso G, Luz D, Porto Barboza E. Implant survival rates, marginal bone level changes, and complications in full-mouth rehabilitation with flapless computer-guided surgery: a systematic review and meta-analysis. *International journal of oral and maxillofacial surgery*. 2015;44((Moraschini V., vittoriomf@terra.com.br; Luz D.; Porto Barboza E.) Department of Periodontology, School of Dentistry, Fluminense Federal University, Niteroi, Rio de Janeiro, Brazil):892-901. www.epistemonikos.org/documents/81cb7657532660d5e151384158d173f3972cd8c6
175. Esposito M, Grusovin MG, Chew YS, Coulthard P, Worthington HV. One-stage versus two-stage implant placement. A Cochrane systematic review of randomised controlled clinical trials. *European journal of oral implantology*. 2009;2(2):91-9. www.epistemonikos.org/documents/81db4592730d7c8cc1dad6fa2d262dde9315ea6a
176. Lemos CA, Ferro-Alves ML, Okamoto R, Mendonça MR, Pellizzer EP. Short dental implants versus standard dental implants placed in the posterior jaws: A systematic review and meta-analysis. *Journal of dentistry*. 2016;47:8-17. www.epistemonikos.org/documents/821c9be7d3c0d61dd305e10a64dd81f9a8944c53
177. Marco Esposito, Pietro Felice, Helen V Worthington. Interventions for replacing missing teeth: augmentation procedures of the maxillary sinus. *Cochrane Database of Systematic Reviews*. 2014;5(5):CD008397. www.epistemonikos.org/documents/8403c4433f63d7c2c126aeaaba081caf7679ef44
178. Xu L, Wang X, Zhang Q, Yang W, Zhu W, Zhao K. Immediate versus early loading of flapless placed dental implants: A systematic review. *The Journal of prosthetic dentistry*. 2014;112(4):760-769. www.epistemonikos.org/documents/846f1542ed6a46d5ea7d55a773969452d9863fbe
179. Emami E, Heydecke G, Rompré PH, de Grandmont P, Feine JS. Impact of implant support for mandibular dentures on satisfaction, oral and general health-related quality of life: a meta-analysis of randomized-controlled trials. *Clinical oral implants research*. 2009;20(6):533-44. www.epistemonikos.org/documents/8656dd436beb325ccc4f037a41e782cbb41a1885
180. Rakhshan V, Rakhshan A. Systematic review and meta-analysis of congenitally missing permanent dentition: Sex dimorphism, occurrence patterns, associated factors and biasing factors. *International orthodontics / College europeen d'orthodontie*. 2016;14(3):273-94. www.epistemonikos.org/documents/86cd153aad484ca2c18e6a7315be09d2d16a217c
181. Garcia, Roberto Puertas, Vianna, Renato G, Prado, Walterson M, Mello, Bruno Freitas, Dayube, Ulisses Ribeiro Campos, Shibli, Jamil Awad. Five-year longitudinal evaluations on implant-supported total fixed ceramic prostheses are scarce in the literature: a systematic review. *ImplantNewsPerio*. 2018;3(1):51-56. www.epistemonikos.org/documents/870b18adfc27d8ca14414376ff9e6dd176a3a92
182. Swedish Council on Health Technology Assessment. Prosthetic Rehabilitation of Partially Dentate or Edentulous Patients: A Systematic Review. *SBU Systematic Review Summaries*. 2010; www.epistemonikos.org/documents/88afcc0ca8308c406558890c7de701124d6c8243
183. Lovatto ST, Bassani R, Sarkis-Onofre R, Dos Santos MBF. Influence of Different Implant Geometry in Clinical Longevity and Maintenance of Marginal Bone: A Systematic Review. *Journal of prosthodontics : official journal of the American College of Prosthodontists*. 2019;28(2):e713-e721. www.epistemonikos.org/documents/8904c2774e48d6059a3c4973da72e49d8ab6ace3
184. Ma S, Fenton A. Screw- versus cement-retained implant prostheses: a systematic review of prosthodontic maintenance and complications. *The International journal of prosthodontics*.

- 2015;28(2):127-45.
www.epistemonikos.org/documents/890883ad29bb15bddd3e2988de66341166017e
185. Thoma DS, Naenni N, Figuero E, Hämmerle CHF, Schwarz F, Jung RE, Sanz-Sánchez I. Effects of soft tissue augmentation procedures on peri-implant health or disease: A systematic review and meta-analysis. *Clinical oral implants research*. 2018;29 Suppl 15:32-49.
www.epistemonikos.org/documents/89212427201363d7c76d93fc3259fd41186f1dd0
186. Lin WS, Eckert SE. Clinical performance of intentionally tilted implants versus axially positioned implants: A systematic review. *Clinical oral implants research*. 2018;29 Suppl 16:78-105.
www.epistemonikos.org/documents/8a70339475972edb0a4933f5657bfda0c43f7f19
187. Kwon T, Bain PA, Levin L. Systematic review of short- (5-10 years) and long-term (10 years or more) survival and success of full-arch fixed dental hybrid prostheses and supporting implants. *Journal of dentistry*. 2014;42(10):1228-1241.
www.epistemonikos.org/documents/8acdd2f3886dcfbb763424fbab77cb7a76e8a880
188. Rakhshan V, Rakhshan H. Meta-analysis of congenitally missing teeth in the permanent dentition: Prevalence, variations across ethnicities, regions and time. *International orthodontics*. 2015;13(3):261-73.
www.epistemonikos.org/documents/8ee76b74e273ab4b3fd117c03f191718dd19cdb5
189. Sadowsky SJ, Zitzmann NU. Protocols for the Maxillary Implant Overdenture: A Systematic Review. *The International journal of oral & maxillofacial implants*. 2016;31 Suppl:s182-91.
www.epistemonikos.org/documents/8fb252eedc18557d60a841b800af70d904f91778
190. Thoma DS, Sailer I, Ioannidis A, Zwahlen M, Makarov N, Pjetursson BE. A systematic review of the survival and complication rates of resin-bonded fixed dental prostheses after a mean observation period of at least 5 years. *Clinical oral implants research*. 2017;28(11):1421-1432.
www.epistemonikos.org/documents/9137b6a9d2c40ac01948594f8f07b6856bcc150f
191. de Medeiros FCFL, Kudo GAH, Leme BG, Saraiva PP, Verri FR, Honório HM, Pellizzer EP, Santiago Junior JF. Dental implants in patients with osteoporosis: a systematic review with meta-analysis. *International journal of oral and maxillofacial surgery*. 2018;47(4):480-491.
www.epistemonikos.org/documents/91aa1dfa35f6d21301c7a8d166771bc9849c22ff
192. Sadowsky SJ, Associate Clinical Professor, Department of Continuing Education. Treatment considerations for maxillary implant overdentures: a systematic review. *Journal of Prosthetic Dentistry*. 2007;97(6):340-348.
www.epistemonikos.org/documents/91d47d6e8fd11b041a830b78daae9de577330e69
193. Monje A, Suarez F, Galindo-Moreno P, García-Nogales A, Fu JH, Wang HL. A systematic review on marginal bone loss around short dental implants (<10 mm) for implant-supported fixed prostheses. *Clinical oral implants research*. 2014;25(10):1119-24.
www.epistemonikos.org/documents/9237b3f8d894813cbbac8b1f1f19f5d50986e7e3
194. Jané-Salas E, López-López J, Roselló-Llabrés X, Rodríguez-Argueta OF, Chimenos-Küstner E. Relationship between oral cancer and implants: clinical cases and systematic literature review. *Medicina oral, patología oral y cirugía bucal*. 2012;17(1):e23-8.
www.epistemonikos.org/documents/927b166b2fe693968d17bda5cf265de1b053612c
195. Pjetursson BE, Sailer I, Makarov NA, Zwahlen M, Thoma DS. All-ceramic or metal-ceramic tooth-supported fixed dental prostheses (FDPs)? A systematic review of the survival and complication rates. Part II: Multiple-unit FDPs. *Dental materials : official publication of the Academy of Dental Materials*. 2015;31(6):624-639.
www.epistemonikos.org/documents/92ddb7001513d8aec9252ca172fb6c17b130252
196. Müller F, Naharro M, Carlsson GE. What are the prevalence and incidence of tooth loss in the adult and elderly population in Europe?. *Clinical oral implants research*. 2007;18(S3):2-14.
www.epistemonikos.org/documents/937aae91679f9a5b18af849ae8355cb72f12697d
197. Ravidà A, Wang IC, Barootchi S, Askar H, Taveli L, Gargallo-Albiol J, Wang HL. Meta-analysis of Randomized Clinical Trials Comparing Clinical and Patient-Reported Outcomes Between Extra-Short (≤ 6 mm) and Longer (≥ 10 mm) Implants. *Journal of clinical periodontology*. 2019;46(1):118-142.
www.epistemonikos.org/documents/93f164c288bb66b32a092c00c22751b5325a2e76
198. Verma R, Joda T, Brägger U, Wittneben JG. A systematic review of the clinical performance of tooth-retained and implant-retained double crown prostheses with a follow-up of ≥ 3 years. *Journal of prosthodontics : official journal of the American College of Prosthodontists*. 2013;22(1):2-12.
www.epistemonikos.org/documents/9432a122a1fab47f225ae4ac1cd4c824f2ccd926

199. Sorrentino R, Di Mauro MI, Ferrari M, Leone R, Zarone F. Complications of endodontically treated teeth restored with fiber posts and single crowns or fixed dental prostheses-a systematic review. *Clinical oral investigations*. 2016;20(7):1449-57.
www.epistemonikos.org/documents/94dac7ec3f8561a8c348857e07e4100e7cf7ce49
200. de Baat C. Success of dental implants in elderly people--a literature review. *Gerodontology*. 2000;17(1):45-8.
www.epistemonikos.org/documents/956fc178e8720219fa05595b822a997588eb037b
201. Atieh MA, Alsabeeha NH, Payne AG, Duncan W, Faggion CM, Esposito M. Interventions for replacing missing teeth: alveolar ridge preservation techniques for dental implant site development. *Cochrane Database of Systematic Reviews*. 2015;5(5):CD010176.
www.epistemonikos.org/documents/96c28132ce79c9244c2b9134e8eb65835d9acacd
202. Strassburger C, Heydecke G, Kerschbaum T. Influence of prosthetic and implant therapy on satisfaction and quality of life: a systematic literature review. Part 1 -- characteristics of the studies. *The International journal of prosthodontics*. 2004;17(1):83-93.
www.epistemonikos.org/documents/96cb5ed5a05608b4db79a28c4665b256844b2243
203. Doornewaard R, Christiaens V, De Bruyn H, Jacobsson M, Cosyn J, Vervaeke S, Jacquet W. Long-Term Effect of Surface Roughness and Patients' Factors on Crestal Bone Loss at Dental Implants. A Systematic Review and Meta-Analysis. *Clinical implant dentistry and related research*. 2017;19(2):372-399.
www.epistemonikos.org/documents/96e7d770a00d90e499577966c1863d68c2baffe7
204. Ramamoorthi M, Narvekar A, Esfandiari S. A meta-analysis of retention systems for implant-supported prostheses in partially edentulous jaws. *The Journal of prosthetic dentistry*. 2017;118(5):587-595.
www.epistemonikos.org/documents/976d57be8b57503a1389957445f8bc76db030800
205. Munerato, Marcelo Salles, Santos, Washington Delboni dos, Mendes, Gabriel Cury Batista, Ribeiro Junior, Paulo Domingos. Current scenario of antibiotic prophylaxis in implant dentistry: literature review and protocol performance. *Salusvita*. 2016;35(4):579-591.
www.epistemonikos.org/documents/9a4938c548a7d855fa5a9fb3e3ef73553491851a
206. Qi Zhang, Xin Jin, Mengliu Yu, Guoming Ou, Hiroyuki Matsui, Xing Liang, Keiichi Sasaki, Zhang, Qi, Jin, Xin, Yu, Mengliu, Ou, Guoming, Matsui, Hiroyuki, Liang, Xing, Sasaki, Keiichi. Economic Evaluation of Implant-Supported Overdentures in Edentulous Patients: A Systematic Review. *International Journal of Prosthodontics*. 2017;30(4):321-326.
www.epistemonikos.org/documents/9a52fa4c527e0451de9099965c14d8176edd7414
207. Srinivasan M, Makarov NA, Herrmann FR, Müller F. Implant survival in 1- versus 2-implant mandibular overdentures: a systematic review and meta-analysis. *Clinical oral implants research*. 2016;27(1):63-72.
www.epistemonikos.org/documents/9ab268f2bb3259eda99b34ad8aa0d7f10a827d7f
208. Chrcanovic BR, Albrektsson T, Wennerberg A. Dental Implants in Patients Receiving Chemotherapy: A Meta-Analysis. *Implant dentistry*. 2016;25(2):261-71.
www.epistemonikos.org/documents/9b5e9e1abd63753d5a196babde753df009dcc81b
209. Marco Esposito, Helen V Worthington. Interventions for replacing missing teeth: hyperbaric oxygen therapy for irradiated patients who require dental implants. *Cochrane Database of Systematic Reviews*. 2013;9(9):CD003603.
www.epistemonikos.org/documents/9b91fce71e7abe0fe7287c498e4da38da65c839c
210. Sendyk DI, da Silva Rovai E, Pannuti CM, Deboni MC, Sendyk WR, Wennerberg A. Dental implant loss in older versus younger patients: a systematic review and meta-analysis of prospective studies. *Journal of oral rehabilitation*. 2017;44(3):229-236.
www.epistemonikos.org/documents/9bbcabcc98de3bf4bfa64680d90b179c031ace3d
211. Chen MH, Shi JY. Clinical and Radiological Outcomes of Implants in Osteotome Sinus Floor Elevation with and without Grafting: A Systematic Review and a Meta-Analysis. *Journal of prosthodontics : official journal of the American College of Prosthodontists*. 2018;27(5):394-401.
www.epistemonikos.org/documents/9f45b21ae18638cfbd938ba3397f9696812ca58e
212. Castillo-Oyagüe R, Sancho-Esper R, Lynch CD, Suárez-García MJ. All-ceramic inlay-retained fixed dental prostheses for replacing posterior missing teeth: A systematic review. *Journal of prosthodontic research*. 2018;62(1):10-23.
www.epistemonikos.org/documents/a00005bc2e7fb0ac103b958030a00ed6938c4469
213. Milinkovic I, Cordaro L. Are there specific indications for the different alveolar bone augmentation procedures for implant placement? A systematic review. *International journal of oral and maxillofacial surgery*. 2014;43(5):606-25.
www.epistemonikos.org/documents/a2bccbca0a46bc5c2d0386be8d6135b3cbf80a51

214. Patzelt SB, Bahat O, Reynolds MA, Strub JR. The All-on-Four Treatment Concept: A Systematic Review. *Clinical implant dentistry and related research*. 2014;16(6):836-55. www.epistemonikos.org/documents/a313a09ff858538a65932e941d9dfab0a6471067
215. Chaar MS, Att W, Strub JR. Prosthetic outcome of cement-retained implant-supported fixed dental restorations: a systematic review. *Journal of oral rehabilitation*. 2011;38(9):697-711. www.epistemonikos.org/documents/a3f0477659476356d8afabe73825e733b564930c
216. Nasr S., Slot D.E., Bahaa S., Dorfer C.E., Fawzy El-Sayed K.M.. Dental implants combined with sinus augmentation: What is the merit of bone grafting? A systematic review. *Journal of Cranio-Maxillofacial Surgery*. 2016;44(10):1607-1617. www.epistemonikos.org/documents/a494cc861eb0adf27bea10057a2fbfd7003a48e1
217. Dereka X, Mardas N, Chin S, Petrie A, Donos N. A systematic review on the association between genetic predisposition and dental implant biological complications. *Clinical oral implants research*. 2012;23(7):775-88. www.epistemonikos.org/documents/a55a337d830bc469504e3f9ef55f124c40074542
218. Gonçalves, Thais Marques Simek Vega, Bortolini, Sergio, Martinolli, Matteo, Alfenas, Bruna Fernandes Moreira, Peruzzo, Daiane Cristina, Natali, Alfredo, Berzaghi, Andrea, Garcia, Renata Cunha Matheus Rodrigues. Long-term Short Implants Performance: Systematic Review and Meta-Analysis of the Essential Assessment Parameters. *Braz Dent J*. 2015;26(4):325-336. www.epistemonikos.org/documents/a5a7edb90a8b6f6f053d1d5da5edbf71f9d114be
219. Schou S. Implant treatment in periodontitis-susceptible patients: a systematic review. *Journal of oral rehabilitation*. 2008;35 Suppl 1(S1):9-22. www.epistemonikos.org/documents/a6680675abb7b077b16173056a077b83fcd817b3
220. Akhleif Y, Schwartz O, Andreasen JO, Jensen SS. Autotransplantation of teeth to the anterior maxilla: A systematic review of survival and success, aesthetic presentation, and patient-reported outcome. *Dental traumatology : official publication of International Association for Dental Traumatology*. 2018;34(1):20-27. www.epistemonikos.org/documents/a70df404ea5b62f8d640253d3988a36f9ea37d15
221. Zhang SS, Zhang Y, Di P, Lin Y. [Systematic review and meta-analysis on the effect of implant supported overdentures on the oral health related quality of life of edentulous patients]. *Zhonghua kou qiang yi xue za zhi = Zhonghua kouqiang yixue zazhi = Chinese journal of stomatology*. 2017;52(5):305-309. www.epistemonikos.org/documents/a756a724ee3bd9141367fd9ee340e1ee516a2a89
222. Abdulmajeed AA, Lim KG, Närhi TO, Cooper LF. Complete-arch implant-supported monolithic zirconia fixed dental prostheses: A systematic review. *The Journal of prosthetic dentistry*. 2016;115(6):672-677.e1. www.epistemonikos.org/documents/a7faf7971b127f34e98095855d5075272820a660
223. Chen ST, Buser D. Esthetic Outcomes Following Immediate and Early Implant Placement in the Anterior Maxilla-A Systematic Review. *The International journal of oral & maxillofacial implants*. 2014;29 Suppl:186-215. www.epistemonikos.org/documents/a889587360c9095a3531e6b1616099f24f805535
224. Zygogiannis, Kostas, Wismeijer, Daniel, Aartman, Irene H. A., Osman, Reham B.. A Systematic Review on Immediate Loading of Implants Used to Support Overdentures Opposed by Conventional Prostheses: Factors That Might Influence Clinical Outcomes. *International Journal of Oral & Maxillofacial Implants*. 2016;31(1):63-72. www.epistemonikos.org/documents/a88ef0866e8fbd2fa4c6dec597efac94f038235b
225. Raghianti Zangrando MS, Damante CA, Passanezi Sant'Ana AC, Rubo de Rezende ML, Aguiar Gregghi SL, Chambrone L. Long-Term Evaluation of Periodontal Parameters and Implant Outcomes in Periodontally Compromised Patients. A Systematic Review. *Journal of periodontology*. 2015;86(2):1-22. www.epistemonikos.org/documents/aa61231a2a3fa8099f10cac8a3fe28ddd37e75d7
226. Telleman G, Raghoobar GM, Vissink A, den Hartog L, Huddleston Slater JJ, Meijer HJ. A systematic review of the prognosis of short (<10 mm) dental implants placed in the partially edentulous patient. *Journal of clinical periodontology*. 2011;38(7):667-76. www.epistemonikos.org/documents/aab7bef11b51410fc124f39432a3774d3337d834
227. Lang NP, Pjetursson BE, Tan K, Brägger U, Egger M, Zwahlen M. A systematic review of the survival and complication rates of fixed partial dentures (FPDs) after an observation period of at least 5 years. II. Combined tooth-implant-supported FPDs. *Clinical oral implants research*. 2004;15(6):643-53. www.epistemonikos.org/documents/ab63800a0305b21847359ec38d23270cb88d6717
228. Ortega-Oller I, Suárez F, Galindo-Moreno P, Torrecillas-Martínez L, Monje A, Catena A, Wang HL. The influence of implant diameter on its survival: a meta-analysis based on prospective

- clinical trials. *Journal of periodontology*. 2014;85(4):569-80.
www.epistemonikos.org/documents/acad5834c5b21e72aab6b72093268e89e7268d3a
229. Radi IA, Ibrahim W, Iskandar SMS, AbdelNabi N. Prognosis of dental implants in patients with low bone density: A systematic review and meta-analysis. *The Journal of prosthetic dentistry*. 2018;120(5):668-677.
www.epistemonikos.org/documents/ad496966ca65b4fbfb2729c50efe7e947688a989
230. Ata-Ali J, Peñarrocha-Oltra D, Candel-Marti E, Peñarrocha-Diago M. Oral rehabilitation with tilted dental implants: a metaanalysis. *Medicina oral, patología oral y cirugía bucal*. 2012;17(4):e582-7.
www.epistemonikos.org/documents/ad9bd2c674f4f7b7b10ae5a9c0d3d5a6ca39c607
231. Seo C, Juodzbaly G. Accuracy of Guided Surgery via Stereolithographic Mucosa-Supported Surgical Guide in Implant Surgery for Edentulous Patient: a Systematic Review. *Journal of oral & maxillofacial research*. 2018;9(1):e1.
www.epistemonikos.org/documents/ae4c988076416813f09e622c1187f8f5ec90e970
232. Shi J., Leng W., Zhao L., Deng C., Xu C., Wang J., Wang Y., Peng X.. Tooth loss and cancer risk: A dose-response meta analysis of prospective cohort studies. *Oncotarget*. 2018;9(19):15090-15100. www.epistemonikos.org/documents/afb42e87d7e596e38852aaa4cc428335827228da
233. Hämmerle CH, Jung RE, Feloutzis A. A systematic review of the survival of implants in bone sites augmented with barrier membranes (guided bone regeneration) in partially edentulous patients. *Journal of clinical periodontology*. 2002;29 Suppl 3:226-31; discussion 232-3. www.epistemonikos.org/documents/b1314301bafeb54cd4ffeed21dfbe2b9df08cc8
234. Cordaro L, Torsello F, Rocuzzo M. Implant loading protocols for the partially edentulous posterior mandible. *The International journal of oral & maxillofacial implants*. 2009;24 Suppl:158-68. www.epistemonikos.org/documents/b200ce9cb2f863a4bfbfb2cfcaa513206159699e
235. Koodaryan R, Hafezeqoran A. Evaluation of Implant Collar Surfaces for Marginal Bone Loss: A Systematic Review and Meta-Analysis. *BioMed research international*. 2016;2016(no pagination):4987526.
www.epistemonikos.org/documents/b38e3f1189c9a43c5cdec36cb3f5614334284eb
236. Levin L, Halperin-Sternfeld M. Tooth preservation or implant placement. *Journal of the American Dental Association* (1939). 2013;144(10):1119-33. www.epistemonikos.org/documents/b393357a629e90c78ad83672df545b2f43dda809
237. Giro G, Chambrone L, Goldstein A, Rodrigues JA, Zenóbio E, Feres M, Figueiredo LC, Cassoni A, Shibli JA. Impact of osteoporosis in dental implants: A systematic review. *World journal of orthopedics*. 2015;6(2):311-5.
www.epistemonikos.org/documents/b4f47a2e93ad91f91f5b7e571797d3c6b4884f8d
238. Fitzpatrick B. Standard of care for the edentulous mandible: a systematic review. *The Journal of prosthetic dentistry*. 2006;95(1):71-8. www.epistemonikos.org/documents/b610d931b7e71ce3130467ae844837e0b03eeb9c
239. Rakhshan V. Meta-analysis and systematic review of factors biasing the observed prevalence of congenitally missing teeth in permanent dentition excluding third molars. *Progress in orthodontics*. 2013;14(1):33.
www.epistemonikos.org/documents/b6d0565f95a1f6121fe53c764f156a45f30570d1
240. Bozini T, Petridis H, Garefis K, Garefis P. A meta-analysis of prosthodontic complication rates of implant-supported fixed dental prostheses in edentulous patients after an observation period of at least 5 years. *The International journal of oral & maxillofacial implants*. 2011;26(2):304-18. www.epistemonikos.org/documents/b6e372685d0dba430da0577946f87b5325471a77
241. Laleman I, Bernard L, Vercruyssen M, Jacobs R, Bornstein MM, Quirynen M. Guided Implant Surgery in the Edentulous Maxilla: A Systematic Review. *The International journal of oral & maxillofacial implants*. 2016;31 Suppl:s103-17.
www.epistemonikos.org/documents/b750b83572511c2d38b42dd6cbb900efb76a8a70
242. Esposito M, Grusovin MG, Loli V, Coulthard P, Worthington HV. Does antibiotic prophylaxis at implant placement decrease early implant failures? A Cochrane systematic review. *European journal of oral implantology*. 2010;3(2):101-10.
www.epistemonikos.org/documents/b7f72f508add5f900a14dfc721e8972f31190092
243. Zhuang J, Zhao D, Wu Y, Xu C. Evaluation of Outcomes of Dental Implants Inserted by Flapless or Flapped Procedure: A Meta-Analysis. *Implant dentistry*. 2018;27(5):588-598.
www.epistemonikos.org/documents/b8314eebc6c3e8973554feaf2438dd30a86fdb5b
244. Figueroa-Ahumada, Emanuel, Raby-Olavarría, Ian. Clinical Control of Patients Treated with an Immediately Loaded Implant-Supported Prosthesis. A Systematic Review. *Int. j.*

- odontostomatol. (Print). 2018;12(1):21-28.
www.epistemonikos.org/documents/b9872150dc5214f8c7fe0a3fb7b17c5e2b3a6313
245. Esposito M, Grusovin MG, Coulthard P, Oliver R, Worthington HV. The efficacy of antibiotic prophylaxis at placement of dental implants: a Cochrane systematic review of randomised controlled clinical trials. *European journal of oral implantology*. 2008;1(2):95-103.
www.epistemonikos.org/documents/ba9e6f59bfd538f48c0ed1ba754cf7bfe54b9ae5
246. Maisonneuve P, Amar S, Lowenfels AB. Periodontal Disease, Edentulism and Pancreatic Cancer: A Meta Analysis. *Annals of oncology : official journal of the European Society for Medical Oncology*. 2017;28(5):985-995.
www.epistemonikos.org/documents/baa0e10472d215fa599c335755b64fbf781f9a05
247. Tomasi C, Wennström JL, Berglundh T. Longevity of teeth and implants -- a systematic review. *Journal of Oral Rehabilitation*. 2008;35(S1):23-32.
www.epistemonikos.org/documents/bab34a88dae3f71cf82a579e0be1a5995022213b
248. Di Girolamo M, Calcaterra R, Di Gianfilippo R, Arcuri C, Baggi L. Bone level changes around platform switching and platform matching implants: a systematic review with meta-analysis. *ORAL & implantology*. 2016;9(1):1-10.
www.epistemonikos.org/documents/bac5765b90057cf5f9a99b64e58af7de01eed78a
249. Torabinejad M, Lozada J, Puterman I, White SN. Endodontic therapy or single tooth implant? A systematic review. *Journal of the California Dental Association*. 2008;36(6):429-37.
www.epistemonikos.org/documents/bc1f6568e8e0a085ae00d74bfcd5e7a24f800187
250. Quirynen M, Van Assche N, Botticelli D, Berglundh T. How does the timing of implant placement to extraction affect outcome?. *The International journal of oral & maxillofacial implants*. 2007;22 Suppl(SUPPL.):203-23.
www.epistemonikos.org/documents/bd400f07324c6c2b86a04695e546c3f5de910282
251. Bryant SR, MacDonald-Jankowski D, Kim K. Does the type of implant prosthesis affect outcomes for the completely edentulous arch?. *The International journal of oral & maxillofacial implants*. 2007;22 Suppl(SUPPL.):117-39.
www.epistemonikos.org/documents/bd6246f1714085fe7c574c8a8cf2602a37ce1ed5
252. Zhu Y, Zheng X, Zeng G, Xu Y, Qu X, Zhu M, Lu E. Clinical efficacy of early loading versus conventional loading of dental implants. *Scientific reports*. 2015;5:15995.
www.epistemonikos.org/documents/bdebc28c052353186ee3f7bfd6e99a61b8e3a697
253. Chrcanovic BR, Albrektsson T, Wennerberg A. Bruxism and Dental Implants: A Meta-Analysis. *Implant dentistry*. 2015;24(5):505-16.
www.epistemonikos.org/documents/c02fc38b28b1581a9a96908e04802cf376031a24
254. Chambrone L, Preshaw PM, Ferreira JD, Rodrigues JA, Cassoni A, Shibli JA. Effects of tobacco smoking on the survival rate of dental implants placed in areas of maxillary sinus floor augmentation: a systematic review. *Clinical oral implants research*. 2014;25(4):408-16.
www.epistemonikos.org/documents/c0d830aac22c80df474a4e7257a0c755d95b14e8
255. Marlière DAA, Demétrio MS, Picinini LS, De Oliveira RG, Chaves Netto HDM. Accuracy of computer-guided surgery for dental implant placement in fully edentulous patients: A systematic review. *European journal of dentistry*. 2018;12(1):153-160.
www.epistemonikos.org/documents/c168a50b4303cfdb390908927ef05bde4ab7884e
256. Sailer I, Makarov NA, Thoma DS, Zwahlen M, Pjetursson BE. All-ceramic or metal-ceramic tooth-supported fixed dental prostheses (FDPs)? A systematic review of the survival and complication rates. Part I: Single crowns (SCs). *Dental materials : official publication of the Academy of Dental Materials*. 2015;31(6):603-623.
www.epistemonikos.org/documents/c1c7df6937061ded5ac470be745d2254f41a29e3
257. Schrott A, Riggi-Heiniger M, Maruo K, Gallucci GO. Implant loading protocols for partially edentulous patients with extended edentulous sites—a systematic review and meta-analysis. *The International journal of oral & maxillofacial implants*. 2014;29 Suppl:239-55.
www.epistemonikos.org/documents/c3836f7754658f62668cb4ef1d2f04303a5cef54c
258. Octavi CF, Genís BB, Rui F, Jung RE, Cosme GE, Eduard VC. Interventions for Dental Implant Placement in Atrophic Edentulous Mandibles: Vertical Bone Augmentation and Alternative Treatments. A Meta-Analysis of Randomized Clinical Trials. *Journal of periodontology*. 2016;87(12):1-23.
www.epistemonikos.org/documents/c3b642f13bb1bdb5bb1e237c508a0d439b8c9c0c
259. Ilegami CM, Uehara PN, Sesma N, Pannuti CM, Tortamano Neto P, Mukai MK. Survival rate of titanium-zirconium narrow diameter dental implants versus commercially pure titanium narrow diameter dental implants: A systematic review. *Clinical implant dentistry and related research*.

- 2017;19(6):1015-1022.www.epistemonikos.org/documents/c80538bc6d2a45da2d5a2c5966510471b04e050b
260. Pommer B, Mailath-Pokorny G, Haas R, Busenlechner D, Fürhauser R, Watzek G. Patients' preferences towards minimally invasive treatment alternatives for implant rehabilitation of edentulous jaws. *European journal of oral implantology*. 2014;7(2):91-109.www.epistemonikos.org/documents/c89cd11c08d92d36e72aaf639cad361bf57ee6c7
261. Del Fabbro M, Ceresoli V. The fate of marginal bone around axial vs. tilted implants: a systematic review. *European journal of oral implantology*. 2014;7(2):171-89.www.epistemonikos.org/documents/c8bea6ba95f30233f270c51168f7ba7e80adc5f1
262. Zurdo J, Romão C, Wennström JL. Survival and complication rates of implant-supported fixed partial dentures with cantilevers: a systematic review. *Clinical oral implants research*. 2009;20 Suppl 4(SUPPL. 4):59-66.
www.epistemonikos.org/documents/c8e219eefa153bd707d9aba89770d9dcc4376c96
263. Ahmad N, Saad N. Effects of antibiotics on dental implants: a review. *Journal of clinical medicine research*. 2012;4(1):1-6.www.epistemonikos.org/documents/c8f16dd5f083c584866e71eb9969b3a40f032a5a
264. Marco Esposito, Maria Gabriella Grusovin, Helen V Worthington. Interventions for replacing missing teeth: antibiotics at dental implant placement to prevent complications. *Cochrane Database of Systematic Reviews*. 2013;7(7):CD004152.
www.epistemonikos.org/documents/c96a90bbabc863b6e302545cb633ca76787c53a6
265. Del Fabbro M, Bellini CM, Romeo D, Francetti L. Tilted implants for the rehabilitation of edentulous jaws: a systematic review. *Clinical implant dentistry and related research*. 2012;14(4):612-21.
www.epistemonikos.org/documents/ca3566a5d573ebeb2fccfabf041d3b7a8716cba3
266. Palaska, Pinelopi K., Antonarakis, Gregory S.. Prevalence and patterns of permanent tooth agenesis in individuals with Down syndrome: a meta-analysis. *European Journal of Oral Sciences*. 2016;124(4):317-328.
www.epistemonikos.org/documents/ca5618718a374b020f6e254b953b35f4f2aead36
267. Huynh-Ba G, Oates TW, Williams MAH. Immediate loading vs. early/conventional loading of immediately placed implants in partially edentulous patients from the patients' perspective: A systematic review. *Clinical oral implants research*. 2018;29 Suppl 16:255-269.www.epistemonikos.org/documents/cae323ff91d6724e98c846d4a21308d94562f9cf
268. Marco Esposito, Maria Gabriella Grusovin, Hassan Maghaireh, Helen V Worthington. Interventions for replacing missing teeth: different times for loading dental implants. *Cochrane Database of Systematic Reviews*. 2013;3(3):CD003878.
www.epistemonikos.org/documents/cb3298882c6f0f1e82c2139849804adb1a0cc5d5
269. Stafford GL. Platform switching of implants may decrease bone loss. *Evidence-based dentistry*. 2015;16(3):84-85.www.epistemonikos.org/documents/cc60b35bae2ec42a98eeeb6905733d5d48332797
270. AlKudmani H, Al Jasser R, Andreana S. Is Bone Graft or Guided Bone Regeneration Needed When Placing Immediate Dental Implants? A Systematic Review. *Implant dentistry*. 2017;26(6):936-944.
www.epistemonikos.org/documents/cc8b5983b26bc99f4c06763d1948d21c20fe34b4
271. Mijiritsky E. Implants in conjunction with removable partial dentures: a literature review. *Implant dentistry*. 2007;16(2):146-154.www.epistemonikos.org/documents/cf4fdfd76f6d4f0317e2701eebed54f33d63fd0e
272. Yamazaki T, Martiniuk AL, Irie K, Sokejima S, Lee CM. Does a mandibular overdenture improve nutrient intake and markers of nutritional status better than conventional complete denture? A systematic review and meta-analysis. *BMJ open*. 2016;6(8):e011799.www.epistemonikos.org/documents/cf998f0f0b689d3de3e9fc396ae9983ec32327ed
273. Reda SM, Krois J, Reda SF, Thomson WM, Schwendicke F. The impact of demographic, health-related and social factors on dental services utilization: Systematic review and meta-analysis. *Journal of dentistry*. 2018;75:1-6.
www.epistemonikos.org/documents/d09e66f9f669b93a9b73a9e7f68e1bab7914e758
274. Ohkubo C, Baek KW. Does the presence of antagonist remaining teeth affect implant overdenture success? A systematic review. *Journal of oral rehabilitation*. 2010;37(4):306-12.
www.epistemonikos.org/documents/d0d33ac0f67ed3fb74af0f06463cc947ef2d617f
275. Quaranta A, Piemontese M, Rappelli G, Sammartino G, Procaccini M. Technical and biological complications related to crown to implant ratio: a systematic review. *Implant dentistry*.

- 2014;23(2):180-7.
www.epistemonikos.org/documents/d0f2e69f1b37a2e91dff397f888171129b2af092
276. de-Freitas NR, Lima LB, de-Moura MB, Veloso-Guedes CC, Simamoto-Júnior PC, de-Magalhães D. Bisphosphonate treatment and dental implants: A systematic review. *Medicina oral, patología oral y cirugía bucal*. 2016;21(5):0.
www.epistemonikos.org/documents/d2c6fc8c19378be3c3c88ca318a14186480f0864
277. Freitas da Silva EV, Dos Santos DM, Sonego MV, de Luna Gomes JM, Pellizzer EP, Goiato MC. Does the Presence of a Cantilever Influence the Survival and Success of Partial Implant-Supported Dental Prostheses? Systematic Review and Meta-Analysis. *The International journal of oral & maxillofacial implants*. 2018;33(4):815-823.
www.epistemonikos.org/documents/d3776914471c6d014eea7feab152f443a36a2ae6
278. Al-Hashedi AA, Ali TB, Yunus N. Short dental implants: an emerging concept in implant treatment. *Quintessence international* (Berlin, Germany : 1985). 2014;45(6):499-514.
www.epistemonikos.org/documents/d3a9cfe111c75136cf042a7387377ecaff034efb
279. Vohra F, Al-Khuraif AA, Almas K, Javed F. Comparison of crestal bone loss around dental implants placed in healed sites using flapped and flapless techniques: a systematic review. *Journal of periodontology*. 2015;86(2):1-9.
www.epistemonikos.org/documents/d3edee0606a5be360c233dde06d276b5e304ab19
280. Rocchietta I, Fontana F, Simion M. Clinical outcomes of vertical bone augmentation to enable dental implant placement: a systematic review. *Journal of clinical periodontology*. 2008;35(8 Suppl):203-15.
www.epistemonikos.org/documents/d4552b3dc74a9f758e3cb7bf21a715ba7f272ab4
281. Le M, Papia E, Larsson C. The clinical success of tooth- and implant-supported zirconia-based fixed dental prostheses. A systematic review. *Journal of oral rehabilitation*. 2015;42(6):467-80.
www.epistemonikos.org/documents/d51f3fd48ce48e2c76a73cd2d1ea3e8b5e6b18cf
282. Hultin M, Komiyama A, Klinge B. Supportive therapy and the longevity of dental implants: a systematic review of the literature. *Clinical oral implants research*. 2007;18 Suppl 3(SUPPL. 3):50-62.
www.epistemonikos.org/documents/d56241d5c5ed95a74f92cb2fc7afc46b717d9137
283. Papia E, Larsson C. Material-related complications in implant-supported fixed dental restorations. A systematic review. *European journal of oral implantology*. 2018;11 Suppl 1:S147-S165.
www.epistemonikos.org/documents/d62973c21f1d64586b7e44129eabb67e8f3a9427
284. Del Fabbro M, Testori T, Francetti L, Taschieri S, Weinstein R, Research and Head, Section of Oral Physiology, Galeazzi Institute, University of Milano, Italy. massimo.delfabbro@unimi.it. Systematic review of survival rates for immediately loaded dental implants. *International Journal of Periodontics & Restorative Dentistry*. 2006;26(3):248-263.
www.epistemonikos.org/documents/d6b59111298a5e8d6dc760dede9bb6aee14b3442
285. Anas El-Wegoud M, Fayyad A, Kaddah A, Nabhan A. Bar versus ball attachments for implant-supported overdentures in complete edentulism: A systematic review. *Clinical implant dentistry and related research*. 2018;20(2):243-250.
www.epistemonikos.org/documents/d6bcf51acccae91b5db8f58e0ad439c9930d7165
286. Jokstad A. The evidence for endorsing the use of short dental implants remains inconclusive. *Evidence-based dentistry*. 2011;12(4):99-101.
www.epistemonikos.org/documents/d712ce9550317905d1e017cd115daeb0099e25fb
287. Ghani F. Prosthetic posterior teeth with cusps may improve patient satisfaction with complete dentures. *Evidence-based dentistry*. 2005;6(2):39-40.
www.epistemonikos.org/documents/d892d9cf3b135f91b7110890db2907417b05ff69
288. de Brandão ML, Vettore MV, Vidigal Júnior GM. Peri-implant bone loss in cement- and screw-retained prostheses: Systematic review and meta-analysis. *Journal of clinical periodontology*. 2013;40(3):287-95.
www.epistemonikos.org/documents/da8e46e030f6121b1119f4abce3464690da482ec
289. Moraschini V, Barboza ED. Success of dental implants in smokers and non-smokers: a systematic review and meta-analysis. *International journal of oral and maxillofacial surgery*. 2016;45(2):205-15.
www.epistemonikos.org/documents/dc2fd7da02e1bbf83c1ad816978f4a70bed55b9e
290. Alfadda SA. Early and immediate loading protocols for overdentures in completely edentulous maxillas: a comprehensive review of clinical trials. *The journal of contemporary dental practice*. 2014;15(6):797-805.
www.epistemonikos.org/documents/dc8a8af6329c7569301af05a638acf18e37de672
291. Esposito M, Maghaireh H, Grusovin MG, Ziounas I, Worthington HV. Soft tissue management for dental implants: what are the most effective techniques? A Cochrane systematic

- review. *European journal of oral implantology*. 2012;5(3):221-38.
www.epistemonikos.org/documents/dce57fa1f3034aa2ab1fa4ff1cc9d9af55328be9
292. Sailer I, Mühlemann S, Zwahlen M, Hämmerle CH, Schneider D. Cemented and screw-retained implant reconstructions: a systematic review of the survival and complication rates. *Clinical oral implants research*. 2012;23 Suppl 6(SUPPL.6):163-201.
www.epistemonikos.org/documents/dd504fb35096a63c2c1ef67ace20f97efc6c83e1
293. Khazaei S, Firouzei MS, Sadeghpour S, Jahangiri P, Savabi O, Keshteli AH, Adibi P. Edentulism and Tooth Loss in Iran: SEPAHAN Systematic Review No. 6. *International journal of preventive medicine*. 2012;3(Suppl 1):S42-7.
www.epistemonikos.org/documents/de14a9dca2adb1dba20f6da62c645322b2b08bfa
294. Assaf A, Daas M, Boittin A, Eid N, Postaire M. Prosthetic maintenance of different mandibular implant overdentures: A systematic review. *The Journal of prosthetic dentistry*. 2017;118(2):144-152.e5.
www.epistemonikos.org/documents/de53535e07ba85fb5666ecd1c6d9f9851fb202ca
295. Hagi D, Deporter DA, Pilliar RM, Arenovich T. A targeted review of study outcomes with short (< or = 7 mm) endosseous dental implants placed in partially edentulous patients. *Journal of periodontology*. 2004;75(6):798-804.
www.epistemonikos.org/documents/de57f2cf5fc738b5605daad684fd6e2b9481230f
296. Marco Esposito, Helen V Worthington. Interventions for replacing missing teeth: dental implants in zygomatic bone for the rehabilitation of the severely deficient edentulous maxilla. *Cochrane Database of Systematic Reviews*. 2013;9(9):CD004151.
www.epistemonikos.org/documents/e00006d736d90c67923362229c0849d991ba68fe
297. Raghoobar GM, Meijer HJ, Slot W, Slater JJ, Vissink A. A systematic review of implant-supported overdentures in the edentulous maxilla, compared to the mandible: how many implants?. *European journal of oral implantology*. 2014;7(2):191-201.
www.epistemonikos.org/documents/e03f192c7f912c42c36b873c115b8293fe4842ea
298. Carr AB. Survival of short implants is improved with greater implant length, placement in the mandible compared with the maxilla, and in nonsmokers. *The journal of evidence-based dental practice*. 2012;12(3 Suppl):189-91.
www.epistemonikos.org/documents/e0c6d5e6522641688bb94334d5c6c7d4c7afadc8
299. Moldovan O, Rudolph H, Luthardt RG. Biological complications of removable dental prostheses in the moderately reduced dentition: a systematic literature review. *Clinical oral investigations*. 2018;22(7):2439-2461.
www.epistemonikos.org/documents/e0f1f5d5a2bd8537e2d3bc7a0e98d99d346c2334
300. Zelig R., Touger-Decker R., Chung M., Byham-Gray L.. Associations between tooth loss, with or without dental prostheses, and malnutrition risk in older adults: A systematic review. *Topics in Clinical Nutrition*. 2016;31(3):232-247.
www.epistemonikos.org/documents/e1706fb4e5b306b85e9f557904dc8a3b61fb0aaa
301. Goiato MC, Bannwart LC, Pesqueira AA, Santos DM, Haddad MF, Santos MR, Castilho PU. Immediate loading of overdentures: systematic review. *Oral and maxillofacial surgery*. 2014;18(3):259-64.
www.epistemonikos.org/documents/e1b4142f483368a24c0f042679a870f5772c56ed
302. Pardal-Peláez B, Montero J. Preload loss of abutment screws after dynamic fatigue in single implant-supported restorations. A systematic review. *Journal of clinical and experimental dentistry*. 2017;9(11):e1355-e1361.
www.epistemonikos.org/documents/e1ca037f5b877ad6636beba28f6a3fbd59c9126b
303. Sennerby L, Gottlow J. Clinical outcomes of immediate/early loading of dental implants. A literature review of recent controlled prospective clinical studies. *Australian dental journal*. 2008;53 Suppl 1:S82-8.
www.epistemonikos.org/documents/e1f27a598f028e9fd8fd8bddd932fc29b8e4fbde
304. Schley JS, Wolfart S. Which prosthetic treatment concepts present a reliable evidence-based option for the edentulous maxilla related to number and position of dental implants?. *European journal of oral implantology*. 2011;4 Suppl:31-47.
www.epistemonikos.org/documents/e22dfce2e58dba5481e2b4337f6b92ddc3082dc3
305. Jayaraman S, Singh BP, Ramanathan B, Pazhaniappan Pillai M, MacDonald L, Kirubakaran R. Final-impression techniques and materials for making complete and removable partial dentures. *The Cochrane database of systematic reviews*. 2018;4:CD012256.
www.epistemonikos.org/documents/e26ca6a740e2d3e5be9b0c4b3ba1491ca4a77ed2
306. Toti P., Marchionni S., Menchini-Fabris G.B., Marconcini S., Covani U., Barone A.. Surgical techniques used in the rehabilitation of partially edentulous patients with atrophic posterior mandibles: A systematic review and meta-analysis of randomized controlled clinical trials. *Journal*

- of Cranio-Maxillofacial Surgery. 2017;45(8):1236-1245.
www.epistemonikos.org/documents/e297904ecf7087b866163021adc9e9377f142391
307. Daudt Polido W, Aghaloo T, Emmett TW, Taylor TD, Morton D. Number of implants placed for complete-arch fixed prostheses: A systematic review and meta-analysis. *Clinical oral implants research*. 2018;29 Suppl 16:154-183.
www.epistemonikos.org/documents/e37fc90471a7908a2e2556b1202cb4f912378bf2
308. Lang NP, Pun L, Lau KY, Li KY, Wong MC. A systematic review on survival and success rates of implants placed immediately into fresh extraction sockets after at least 1 year. *Clinical oral implants research*. 2012;23 Suppl 5(SUPPL. 5):39-66.
www.epistemonikos.org/documents/e3b3b9611c9919258fd8ff848c31e7426517859d
309. Monje A, Alcoforado G, Padiál-Molina M, Suarez F, Lin GH, Wang HL. Generalized aggressive periodontitis as a risk factor for dental implant failure: a systematic review and meta-analysis. *Journal of periodontology*. 2014;85(10):1-17.
www.epistemonikos.org/documents/e3ea97f35061366025fa34215452bb165346e3ae
310. Mankani N, Chowdhary R, Patil BA, Nagaraj E, Madalli P. Osseointegrated dental implants in growing children: a literature review. *The Journal of oral implantology*. 2014;40(5):627-31.
www.epistemonikos.org/documents/e4913c86f65e121bdc24710d8da694b7fdf20308
311. Kawai Y, Taylor JA. Effect of loading time on the success of complete mandibular titanium implant retained overdentures: a systematic review. *Clinical oral implants research*. 2007;18(4):399-408.
www.epistemonikos.org/documents/e49d74ff1d4a524a0304ee2911510f81507cc8d1
312. Altuna P, Lucas-Taulé E, Gargallo-Albiol J, Figueras-Álvarez O, Hernández-Alfaro F, Nart J. Clinical evidence on titanium-zirconium dental implants: a systematic review and meta-analysis. *International journal of oral and maxillofacial surgery*. 2016;45(7):842-50.
www.epistemonikos.org/documents/e6fa10768dd27885fc35dbaf3d282e3bef2333a9
313. Abdalla RIB, Alqutaibi AY, Kaddah A. Does the adjunctive use of platelet-rich plasma to bone graft during sinus augmentation reduce implant failure and complication? Systematic review and meta-analysis. *Quintessence international (Berlin, Germany : 1985)*. 2018;49(2):139-146.
www.epistemonikos.org/documents/e7cd02a85a14a8cd7e1938cc9037f7918952df3f
314. Lemos CAA, Verri FR, Cruz RS, Santiago Júnior JF, Faverani LP, Pellizzer EP. Survival of dental implants placed in HIV-positive patients: a systematic review. *International journal of oral and maxillofacial surgery*. 2018;47(10):1336-1342.
www.epistemonikos.org/documents/e8ed665d7b835a6424e5e7c886bf132a90d74876
315. Annibali S, Cristalli MP, Dell'Aquila D, Bignozzi I, La Monaca G, Piloni A. Short dental implants: a systematic review. *Journal of dental research*. 2012;91(1):25-32.
www.epistemonikos.org/documents/e9639376f75913035062104aea5d1bb65f91ba6f
316. Chrcanovic BR, Albrektsson T, Wennerberg A. Dental implants inserted in male versus female patients: a systematic review and meta-analysis. *Journal of oral rehabilitation*. 2015;42(9):709-22.
www.epistemonikos.org/documents/e98692b52544fd20cafcc074a58404d6ee9378c2
317. Reissmann DR, Dard M, Lamprecht R, Struppek J, Heydecke G. Oral health-related quality of life in subjects with implant-supported prostheses: A systematic review. *Journal of dentistry*. 2017;65:22-40.
www.epistemonikos.org/documents/ea8425df0fc5f97281a139b6527fc0a51c722b23
318. Mahoorkar S, Bhat S, Kant R. Single implant supported mandibular overdenture: A literature review. *Journal of Indian Prosthodontic Society*. 2016;16(1):75-82.
www.epistemonikos.org/documents/eb3a4dd89890a536b1709ebc7393fb9d063bfb0a
319. Sunnegardh-Gronberg K, Davidson T, Gynther G, Jemt T, Lekholm U, Nilner K, Nordenram G, Norlund A, Rohlin M, Tranaeus S, Hultin M. Treatment of adult patients with partial edentulism: a systematic review. *The International journal of prosthodontics*. 2012;25(6):568-81.
www.epistemonikos.org/documents/eb80390c25946ffbcc9d225660d340d0fd4bc22a
320. Helmy MHE, Alqutaibi AY, El-Ella AA, Shawkly AF. Effect of implant loading protocols on failure and marginal bone loss with unsplinted two-implant-supported mandibular overdentures: systematic review and meta-analysis. *International journal of oral and maxillofacial surgery*. 2018;47(5):642-650.
www.epistemonikos.org/documents/ec620128cab731e577b3b3d42c41352eec968e1a
321. Lemos CAA, Verri FR, Cruz RS, Gomes JML, Dos Santos DM, Goiato MC, Pellizzer EP. Comparison between flapless and open-flap implant placement: a systematic review and meta-analysis. *International journal of oral and maxillofacial surgery*. 2018;
www.epistemonikos.org/documents/ec713944d666584e9113b40346388f245512997c

322. Cruz RS, Lemos CAA, Batista VES, Oliveira HFFE, Gomes JML, Pellizzer EP, Verri FR. Short implants versus longer implants with maxillary sinus lift. A systematic review and meta-analysis. *Brazilian oral research*. 2018;32:e86.
www.epistemonikos.org/documents/ecd700bdaf6cfaa32b7afaff1496c106e42af8e9
323. Gerritsen AE, Allen PF, Witter DJ, Bronkhorst EM, Creugers NH. Tooth loss and oral health-related quality of life: a systematic review and meta-analysis. *Health and quality of life outcomes*. 2010;8(no pagination):126.
www.epistemonikos.org/documents/ed1b40a8eab6f57a2f25602b4d2abc5d0aa7785f
324. Esposito M, Grusovin MG, Felice P, Karatzopoulos G, Worthington HV, Coulthard P. The efficacy of horizontal and vertical bone augmentation procedures for dental implants - a Cochrane systematic review. *European journal of oral implantology*. 2009;2(3):167-84.
www.epistemonikos.org/documents/ed6fdb07d05647f3474e59ec742b7fe4cea2279b
325. Mercouriadis-Howald A, Rollier N, Tada S, McKenna G, Igarashi K, Schimmel M. Loss of natural abutment teeth with cast copings retaining overdentures: a systematic review and meta-analysis. *Journal of prosthodontic research*. 2018;62(4):407-415.
www.epistemonikos.org/documents/ed7486276281fde65c744f2053cb112ca778a68c
326. Mishra SK, Chowdhary R, Chrcanovic BR, Brånemark PI. Osseoperception in Dental Implants: A Systematic Review. *Journal of prosthodontics : official journal of the American College of Prosthodontists*. 2016;25(3):185-95.
www.epistemonikos.org/documents/ee06e0c5c0deb90af0da62ba99c0db20653fc03d
327. Chrcanovic BR, Albrektsson T, Wennerberg A. Tilted versus axially placed dental implants: a meta-analysis. *Journal of dentistry*. 2015;43(2):149-70.
www.epistemonikos.org/documents/ef4b73df24df6437f1e9ac5bc8a99b6fd480e3b6
328. Jokstad A, Sanz M, Ogawa T, Bassi F, Levin L, Wennerberg A, Romanos GE. A Systematic Review of the Role of Implant Design in the Rehabilitation of the Edentulous Maxilla. *The International journal of oral & maxillofacial implants*. 2016;31 Suppl:s43-99.
www.epistemonikos.org/documents/f198a2ae9c524a61e669631782b1d10b782e0bb3
329. de Waal YC, van Winkelhoff AJ, Meijer HJ, Raghoobar GM, Winkel EG. Differences in peri-implant conditions between fully and partially edentulous subjects: a systematic review. *Journal of clinical periodontology*. 2013;40(3):266-86.
www.epistemonikos.org/documents/f1a205164a2b74cce69a19a4274f0fc3604e1b68
330. Payne AG, Alsabeeha NH, Atieh MA, Esposito M, Ma S, Anas El-Wegoud M. Interventions for replacing missing teeth: attachment systems for implant overdentures in edentulous jaws. *The Cochrane database of systematic reviews*. 2018;10:CD008001.
www.epistemonikos.org/documents/f366638cbb9359108c7cb8958546ade52df10b7a
331. Storelli S, Del Fabbro M, Scanferla M, Palandrani G, Romeo E. Implant-supported cantilevered fixed dental rehabilitations in fully edentulous patients: Systematic review of the literature. Part II. *Clinical oral implants research*. 2018;29 Suppl 18:275-294.
www.epistemonikos.org/documents/f3b5c704ba91e10a054388343f91df98a043d005
332. Ma P, Dai S, Jin C, Yao Y, Zou C. Tooth loss and risk of colorectal cancer: a dose-response meta-analysis of prospective cohort studies. *Oncotargets and therapy*. 2018;11:1617-1623.
www.epistemonikos.org/documents/f489ae68b5a8e8eb358124754ac502f783fcd45e
333. Ohana, Renata Abou El Hosn, Rezende, Maria Lúcia Rubo de, Sant'Ana, Adriana Campos Passanezi, Gregghi, Sebastião Luis Aguiar, Damante, Carla Andreotti, Passanezi, Euloir. Re- osseointegration on implants affected by peri-implantitis: a systematic review. *ImplantNews*. 2011;8(2):191-198.
www.epistemonikos.org/documents/f49470f08e7c803b577868b27dd9810af1773152
334. Vouros ID, Kalpidis CD, Horvath A, Petrie A, Donos N. Systematic Assessment of Clinical Outcomes in Bone-Level and Tissue-Level Endosseous Dental Implants. *The International journal of oral & maxillofacial implants*. 2012;27(6):1359-74.
www.epistemonikos.org/documents/f4aae193d509dd36a379eaf7916f85c5ff30b912
335. Atarbashi-Moghadam F, Atarbashi-Moghadam S, Namdari M, Shahrabi-Farahani S. Reactive oral lesions associated with dental implants. A systematic review. *Journal of investigative and clinical dentistry*. 2018;9(4):e12342.
www.epistemonikos.org/documents/f4c5561d9da60e14f7ba09b0ea209644f24bdea2
336. Jokstad A, Gökçe M, Hjortsjö C. A systematic review of the scientific documentation of fixed partial dentures made from fiber-reinforced polymer to replace missing teeth. *The International journal of prosthodontics*. 2005;18(6):489-96.
www.epistemonikos.org/documents/f4df89fd79dfed6b8a1d2a09d54d6dd1e4c4a05f
337. Niu W, Wang P, Zhu S, Liu Z, Ji P. Marginal bone loss around dental implants with and without microthreads in the neck: A systematic review and meta-analysis. *The Journal of*

- prosthodontics. 2017;117(1):34-40.
www.epistemonikos.org/documents/f520be2f76a847d7913c1f85f87e11cc79f6c0a4
338. Strub JR, Jurdzik BA, Tuna T. Prognosis of immediately loaded implants and their restorations: a systematic literature review. *Journal of oral rehabilitation*. 2012;39(9):704-17.
www.epistemonikos.org/documents/f6a6f43cc6c75d7b42b1e491bdf0afc22e8dda32
339. Atieh MA, Zadeh H, Stanford CM, Cooper LF. Survival of Short Dental Implants for Treatment of Posterior Partial Edentulism: A Systematic Review. *The International journal of oral & maxillofacial implants*. 2012;27(6):1323-31.
www.epistemonikos.org/documents/f7eb9c3f268fa7d37b9199b3aa779e69ec9529fa
340. Akcali A, Trullenque-Eriksson A, Sun C, Petrie A, Nibali L, Donos N. What is the effect of soft tissue thickness on crestal bone loss around dental implants? A systematic review. *Clinical oral implants research*. 2017;28(9):1046-1053.
www.epistemonikos.org/documents/fb6d65558b0cddcf9aff5354a492825bb384a30
341. Alfadda S. Current Evidence on Dental Implants Outcomes in Smokers and Non-Smokers: A Systematic Review and Meta-Analysis. *The Journal of oral implantology*. 2018;44(5):390-399.
www.epistemonikos.org/documents/fb7949afad5d17a00fa94abdd7743a35451ec282
342. Slagter KW, den Hartog L, Bakker NA, Vissink A, Meijer HJ, Raghoobar GM. Immediate placement of dental implants in the esthetic zone: a systematic review and pooled analysis. *Journal of periodontology*. 2014;85(7):e241-50.
www.epistemonikos.org/documents/fbe221ca171f32d53a2ceaec2f125c2f3fa37a1d
343. Lindh T, Gunne J, Tillberg A, Molin M. A meta-analysis of implants in partial edentulism. *Clinical oral implants research*. 1998;9(2):80-90.
www.epistemonikos.org/documents/fd3245536a9b0598e07a8d36e18cba0b7b6975f8
344. Sivaramakrishnan G, Sridharan K. Comparison of implant supported mandibular overdentures and conventional dentures on quality of life: A systematic review and meta-analysis of randomized controlled studies. *Australian dental journal*. 2016;61(4):482-488.
www.epistemonikos.org/documents/fd3be94984d66cc9325e8862a5a5d21958993944
345. Mardas N, Trullenque-Eriksson A, MacBeth N, Petrie A, Donos N. Does ridge preservation following tooth extraction improve implant treatment outcomes: a systematic review: Group 4: Therapeutic concepts & methods. *Clinical oral implants research*. 2015;26 Suppl 11:180-201.
www.epistemonikos.org/documents/fd7b56851ff27b4dca1fac09b841caa0af38dd27
346. Atieh MA, Payne AG, Duncan WJ, Cullinan MP. Immediate restoration/loading of immediately placed single implants: is it an effective bimodal approach?. *Clinical oral implants research*. 2009;20(7):645-59.
www.epistemonikos.org/documents/fdb6cd5bd931daeea0af78cd08e3912fb73ef78e
347. Aghaloo TL, Misch C, Lin GH, Iacono VJ, Wang HL. Bone Augmentation of the Edentulous Maxilla for Implant Placement: A Systematic Review. *The International journal of oral & maxillofacial implants*. 2016;31 Suppl:s19-30.
www.epistemonikos.org/documents/fee7258cdf353cda754cd88a71ab44e4c91ff868
348. Tolentino da Rosa de Souza P, Binhame Albini Martini M, Reis Azevedo-Alanis L. Do short implants have similar survival rates compared to standard implants in posterior single crown?: A systematic review and meta-analysis. *Clinical implant dentistry and related research*. 2018;20(5):890-901.
www.epistemonikos.org/documents/ff160a90249a9ad0edb9f963240da40663393c11
349. Kern JS, Kern T, Wolfart S, Heussen N. A systematic review and meta-analysis of removable and fixed implant-supported prostheses in edentulous jaws: post-loading implant loss. *Clinical oral implants research*. 2016;27(2):174-95.
www.epistemonikos.org/documents/ff3ea92d8cf7c6c673373edb8bc3294e20f91cac
350. Chrcanovic B.R., Albrektsson T., Wennerberg A.. Immediately loaded non-submerged versus delayed loaded submerged dental implants: A meta-analysis. *International Journal of Oral and Maxillofacial Surgery*. 2015;44(4):493-506.
www.epistemonikos.org/documents/ffac9f7c9da295487c7c7f1ea6764e58e0311772
351. Suárez-López Del Amo F, Lin GH, Monje A, Galindo-Moreno P, Wang HL. Influence of Soft Tissue Thickness Upon Peri-Implant Marginal Bone Loss: A Systematic Review and Meta-Analysis. *Journal of periodontology*. 2016;87(6):1-18.
www.epistemonikos.org/documents/ffe2cfd83e3f3f0cc85545aeccaf755390efdbad