

CLUNIA® Clinical Zn-A gel

CLUNIA® Maintenance Zn gel

CLUNIA® Zn Wipes



Gel Oral Mucoadhesivo y Toallitas de Fácil Aplicación para una Higiene Buco-Dental de Alta Eficacia y Seguridad en Perros, Gatos, Exóticos y Caballos.

Ficha Técnica

La enfermedad periodontal es posiblemente la patología más común en perros y gatos (Lund EM y col, 1999; Marettta SM, 1994). Se ha reportado una incidencia del 60% en gatos domésticos de más de 3 años de edad y hasta el 85% en gatos mayores de 6 años (Marettta SM, 1994; Tholen M y Hoyt RF, 1990); en perros se han reportado cifras similares.

La enfermedad periodontal es una enfermedad crónica e irreversible que afecta al tejido de sostén de los dientes (encías, hueso alveolar, cemento radicular y ligamento periodontal). A menudo esta patología se divide en dos condiciones: la gingivitis y la periodontitis. La gingivitis es la inflamación de la encía, mientras que la periodontitis es la inflamación de los tejidos no gingivales: el ligamento periodontal y el hueso alveolar (Harvey CE, 2005).

El cumplimiento de los tratamientos y las medidas preventivas por parte de los propietarios es esencial para el mantenimiento de la cavidad oral en óptimas condiciones. La facilidad de aplicación de los productos de tratamiento y profilácticos, y el grado de aceptación de los mismos son esenciales, especialmente en animales de difícil manejo.



Composición:

	Clinical Zn-A gel	Maintenance Zn gel	Zn Wipes
Gluconato de Zinc	2%	1,5%	1,5 %
Ácido ascórbico	1,6%	-	-
Taurina	1%	0,5%	0,5%
Excipientes	csp	csp	csp

Mecanismo de acción:

- Los productos de la línea CLUNIA® restauran el microambiente de la boca y encías, creando un entorno que favorece su curación natural. Su fórmula completa proporciona Zinc altamente biodisponible a las capas más profundas de la mucosa oral.
- El Zinc es un factor esencial en más de 300 reacciones enzimáticas, muchas de las cuales intervienen en la regeneración de la matriz extra-celular, los procesos de cicatrización, la reparación del tejido conectivo, la inflamación y el crecimiento celular. En la cavidad oral el Zinc, debido a su papel en la producción de colágeno, permite la recuperación del tejido gingival de una forma eficaz disminuyendo la inflamación.
- La Taurina tiene acción quelante sobre compuestos de azufre que producen el mal aliento y oxida los ácidos grasos volátiles en la boca, reduciendo rápidamente (a partir de 30 segundos) la halitosis.
- La Vitamina C (ácido ascórbico) es importante para la producción de colágeno, que es la principal proteína estructural en la encía. Estimula la reparación del tejido gingival y acelera su reparación. Además el ascorbato de zinc estimula las glándulas salivales, proporcionando una acción de lavado en toda la cavidad oral, que facilita la difusión del gel por todos los rincones de la boca.
- La Carboximetilcelulosa es muco-adhesiva y proporciona un mayor tiempo de contacto del producto con las superficies de la cavidad oral (Gurny R, Meyer JM, Peppas NA, 2015).



Características

Protección completa: placa, sarro, gingivitis, estomatitis y halitosis.

Reduce la formación de placa.

Acción antiséptica frente a patógenos periodontales.

Favorece la resolución de la gingivitis.

Estimula la cicatrización de encías y mucosas lesionadas o ulceradas.

Neutraliza rápidamente (30 segundos) el mal aliento.

Natural (Zinc, Vitamina C y Taurina) y muy seguro - Ideal para tratamientos prolongados en los que el animal ingiere el producto.

Sin sabor - Alta aceptación.

Gel de fácil aplicación sin necesidad de cepillado y Toallitas para una limpieza mecánica.

Gel con fórmula avanzada para uso terapéutico: CLUNIA® Clinical Zn-A gel.

Para uso profiláctico y máxima aceptación: CLUNIA® Maintenance Zn gel y CLUNIA® Zn Wipes.

No mancha el esmalte dental.

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Indicaciones:

• Perros y gatos:

- Uso Terapéutico - CLUNIA® Clinical Zn-A gel:
 - ✓ Antes y después de una revisión y/o higiene bucodental.
 - Aplicado a diario durante los 7-10 días previos a una limpieza dental, particularmente en animales con gingivitis, CLUNIA® Clinical Zn-A gel reduce significativamente la hemorragia al mejorar la salud de las encías y acorta el tiempo de la intervención.
 - Al igual que los antibióticos aplicados profilácticamente tras una cirugía, la acción antiséptica de CLUNIA® Clinical Zn-A gel ayuda a prevenir infecciones tras la limpieza dental.
- ✓ Problemas periodontales avanzados.
- ✓ Post-cirugía oral o maxilofacial.
- ✓ Heridas y laceraciones bucales.
- ✓ Úlceras orales.
- ✓ Abscesos.
- ✓ Mantiene en óptimas condiciones (al estimular la salivación) la cavidad oral en pacientes intubados, sedados y post-quirúrgicos.
- Uso Profiláctico y/o de Mantenimiento - CLUNIA® Maintenance Zn gel y CLUNIA® Zn Wipes:
 - ✓ Aplicados a diario, ayudan a mantener una salud oral óptima, asegurando la capacidad de la mascota de seguir una correcta alimentación durante toda la vida, previniendo problemas más graves como la endocarditis bacteriana y contribuyendo a mejorar el bienestar del animal.
 - ✓ Para limpiar y refrescar la cavidad oral y los dientes.
 - ✓ Control de halitosis.
 - ✓ Exentos de sabor, neutralizan los olores desagradables. Con alta tolerancia por parte de las mascotas.
 - ✓ CLUNIA® Maintenance Zn gel permite una fácil aplicación, sin necesidad de cepillado y con un mínimo manejo del animal.
 - ✓ CLUNIA® Zn Wipes, gracias a su textura única, permite combatir eficazmente la deposición de placa mediante una acción mecánica.

• Exóticos:

- Conejos: Problemas dentales asociados a sobrecrecimiento y maloclusión dental (úlceras, abscesos...).
- Hurones: Enfermedad periodontal.
- Reptiles: Estomatitis.
- Aves: Sinusitis (leves o intermedias).

• Caballos:

- Heridas producidas por el bocado.
- Heridas/cicatrices post-extracción dental.
- Lesiones orales.
- Abscesos.
- Irritaciones post-limado dental.
- Periodontitis.
- Estomatitis.

Modo de Empleo:

• CLUNIA® Clinical Zn-A gel:

1. Desenrosque el tapón aplicador, vierta el contenido del vial adjunto (vitamina C) en la botella y permita que la vitamina C se deposite en el fondo de la botella. Coloque el tapón y agite hasta que se disuelva.
2. Aplique 1 gota (del tamaño de un guisante -aproximadamente 0,5 ml- para mascotas de hasta 10 kg,

No mancha superficies del hogar y tejidos.

Bajo coste diario.

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aumente la dosis para perros medianos, grandes y caballos) de gel en cada lado de la boca, en las encías superiores; la acción de limpieza natural de la boca distribuirá el gel a sus áreas más remotas.

3. Repita la aplicación cada día para una máxima eficacia.
 4. La mayoría de los perros de razas medianas y grandes aceptarán la aplicación directa de la punta del aplicador incorporado; en gatos y perros de razas pequeñas, para maximizar la aceptación, deposite una gota en el dedo índice, bastoncillo, o cepillo dental y aplíquela en las encías.
- CLUNIA® Maintenance Zn gel: siga los pasos 2 a 4 arriba descritos.
 - CLUNIA® Zn Wipes:
 1. Enrollar la toallita sobre el dedo índice o con el que se desea aplicar el producto.
 2. Deslizar suavemente sobre dientes y encías de ambos lados de la boca.
 3. Repetir su aplicación diariamente y recompensar al animal para asegurar una experiencia positiva.

Seguridad:

Muchos productos dentales de uso doméstico contienen clorhexidina. Investigaciones publicadas han demostrado que el uso regular de clorhexidina en odontología veterinaria puede aumentar la tasa de mineralización de la placa (formación de cálculos), manchar el esmalte dental (marrón) y disminuir el sentido del gusto del paciente (Hale FA, 2002). Además, por su acción antimicrobiana, al ser ingerido destruye parcialmente la flora digestiva.

CLUNIA® Clinical Zn-A gel, CLUNIA® Maintenance Zn gel y CLUNIA® Zn Wipes son productos naturales (Zinc, Vitamina C y Taurina) y generalmente reconocidos como el enfoque más seguro para el cuidado oral, especialmente en animales, que a diferencia de las personas, ingieren todo el producto. No tienen contraindicaciones, por tanto pueden ser administrados a largo plazo o de por vida.

La vitamina C estimula la salivación por lo que algunos gatos pueden presentar sialorrea tras la administración de CLUNIA® Clinical Zn-A gel. CLUNIA® Maintenance Zn gel, CLUNIA® Zn Wipes al carecer de vitamina C, puede ser una mejor opción para esos gatos.

Advertencias: Guarde el envase bien cerrado, en un lugar fresco, seco, protegido de la luz solar y fuera del alcance de los niños y los animales. Se recomienda almacenar el envase de CLUNIA® Zn Wipes boca abajo para maximizar la humedad de las toallitas.

Después de mezclar la vitamina C, CLUNIA® Clinical Zn-A gel tiene una vida útil de aproximadamente 6 meses en un armario fresco y oscuro, o 1 año en el refrigerador. El color de la solución indica el grado de frescura y eficacia del producto: utilícelo mientras se mantenga azul o verde; un color marrón o amarillo denota que el producto, aunque seguro, ya no es fresco y eficaz.

- ¿Qué causa el cambio de color? La vitamina C es inestable en soluciones acuosas como el gel de metilcelulosa en la fórmula de CLUNIA®. Una vez que se mezcla, la vitamina C (ácido ascórbico) cambia muy lentamente a dehidro-ascórbico que es de color amarillo; cuando el amarillo se mezcla con el azul de gel de CLUNIA®, se proyecta un color verde; cuando la concentración de ácido dehidro-ascórbico es muy alta, el color cambiará de verde a marrón amarillo.

Presentación:

- CLUNIA® Clinical Zn-A gel: 118 ml.
- CLUNIA® Maintenance Zn gel: 59 ml.
- CLUNIA® Zn Wipes: 100 Toallitas.

Bibliografía:

- Adams SE, Theobald AJ, Jones NM, Brading MG, Cox TF, Mendez A, Chesters DM, Gillam DG, Hall C, Holt J. The effect of a toothpaste containing 2% zinc citrate and 0.3% Triclosan on bacterial viability and plaque growth in vivo compared to a toothpaste containing 0.3% Triclosan and 2% copolymer. Int Dent J. 2003 Dec;53(6 Suppl 1):398-403.
- Albert-Kiszely A, Pjetursson BE, Salvi GE, Witt J, Hamilton A, Persson GR, Lang NP. Comparison of the effects of



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- cetylpyridinium chloride with an essential oil mouth rinse on dental plaque and gingivitis - a six-month randomized controlled clinical trial. *J Clin Periodontol.* 2007 Aug;34(8):658-67.
- American Animal Hospital Association. The path to high-quality care. Lakewood (CO): American Animal Hospital Association; 2003.
 - Ammons WF, Harrington GW. The periodontic-endodontic continuum. In: Newman MG, Takei HH, Carranza FA, eds. *Clinical periodontology*. 9th ed. Philadelphia: WB Saunders, 2002; 840-850.
 - Anonymous. Guidance on the assessment of the efficacy of toothpastes. FDI Commission. Work Project (8-95). *Int Dent J.* 1999 Dec;49(6):311-6.
 - Asokan S, Emmadi P, Chamundeswari R. Effect of oil pulling on plaque induced gingivitis: a randomized, controlled, triple-blind study. *Indian J Dent Res.* 2009 Jan-Mar;20(1):47-51.
 - Association of American Feed Control Officials. Official publication. 2004. p. 126-7.
 - Ausschil TM, Deimling D, Hellwig E, Arweiler NB. Antibacterial effect of two toothpastes following a single brushing. *Oral Health Prev Dent.* 2007;5(1):25-32.
 - Baloş K, Eren K, Baran C, Sütçü S, Günhan O. [The effects of naproxen and vitamin C on experimental gingivitis]. *Ankara Univ Hekim Fak Derg.* 1986 Jan-Dec;13(1-2-3):43-51.
 - Barnes CM, Russell CM, Reinhardt RA, Payne JB, Lyle DM. Comparison of irrigation to floss as an adjunct to tooth brushing: effect on bleeding, gingivitis, and supragingival plaque. *J Clin Dent.* 2005;16(3):71-7.
 - Battino M, Bullon P, Wilson M, et al. Oxidative injury and inflammatory and periodontal disease: the challenge of antioxidants to free radicals and reactive oxygen species. *Crit Rev Oral Biol Med* 1999;10:458-76.
 - Bauroth K, Charles CH, Mankodi SM, Simmons K, Zhao Q, Kumar LD. The efficacy of an essential oil antiseptic mouthrinse vs. dental floss in controlling interproximal gingivitis: a comparative study. *J Am Dent Assoc.* 2003 Mar;134(3):359-65. Erratum in: *J Am Dent Assoc.* 2003 May;134(5):558.
 - Bawden JW, Anderson JJB, Garner SC. Calcium and phosphorus nutrition in health and disease: Dental tissues. In: Wolinsky I, Hickson JF, editors. *Modern nutrition*. Boca Raton (FL): CRC Press; 1995. p. 119-26.
 - Beck JD, Arbes Jr SJ. Epidemiology of gingival and periodontal diseases. In: Newman MG, Takei HH, Carranza FA, eds. *Clinical periodontology*. 9th ed. Philadelphia: WB Saunders, 2002; 74-94.
 - Beck JD, Offenbacher S. The association between periodontal diseases and cardiovascular diseases: a state-of-the-science review. *Ann Periodontol* 2001;6(1):9-15.
 - Becks H, Wainwright WW, Morgan AF. Comparative study of oral changes in dogs due to deficiencies of pantothenic acid, nicotinic acid and an unknown of the B vitamin complex. *Am J Orthodontol Oral Surg* 1943;29:183-207.
 - Becks H, Weber M. The influence of diet on the bone system with special reference to the alveolar process and labyrinthine capsule. *J Am Dent Assoc* 1931;18:197-264.
 - Bell AF. Dental disease in the dog. *J Small Anim Pract* 1965;6:421-8.
 - Bellows J, Carithers DS, Gross SJ. Efficacy of a barrier gel for reducing the development of plaque, calculus, and gingivitis in cats. *J Vet Dent.* 2012 Summer;29(2):89-94. Erratum in: *J Vet Dent.* 2012 Autumn;29(3):196.
 - Bellows J. Small animal dental equipment, materials and techniques. 1st ed. Ames (IA): Blackwell; 2004.
 - Bellows J. Interpreting dental radiographs for periodontal disease. *DVM News magazine* July 1, 2001.
 - Biesbrock AR, Bartizek RD, Gerlach RW, Terézahmy GT. Oral hygiene regimens, plaque control, and gingival health: a two-month clinical trial with antimicrobial agents. *J Clin Dent.* 2007;18(4):101-5.
 - Billinghamurst I. Give your dog a bone. Alexandria (Australia): Bridge Printery; 1993.
 - Blinkhorn A, Bartold PM, Cullinan MP, Madden TE, Marshall RI, Raphael SL, Seymour GJ. Is there a role for triclosan/copolymer toothpaste in the management of periodontal disease? *Br Dent J.* 2009 Aug 8;207(3):117-25.
 - Bonello D, Squarizoni P. Effect of a mucoadhesive gel and dental scaling on gingivitis in dogs. *J Vet Dent.* 2008 Mar;25(1):28-32.
 - Bosma ML. Maintenance of gingival health post professional care. *Int Dent J.* 2011 Aug;61 Suppl 3:1-3.
 - Bowersock TL, Wu CC, Inskeep GA, et al. Prevention of bacteremia in dogs undergoing dental scaling by prior administration of oral clindamycin or chlorhexidine oral rinse. *J Vet Dent* 2000; 17: 11-16.
 - Boyce EN, Logan EI. Oral health assessment in dogs: study design and results. *J Vet Dent* 1994;11:64-74.
 - Boyce EN. Feline experimental models for control of periodontal disease. *Vet Clin North Am Small Anim Pract* 1992;22:1309-21.
 - Bruhn G, Netuschil L, Richter S, Brex M, Hoffmann T. Effect of a toothpaste containing triclosan on dental plaque, gingivitis, and bleeding on probing—an investigation in periodontitis patients over 28 weeks. *Clin Oral Investig.* 2002 Jun;6(2):124-7.
 - Campbell HG, Cook RP. Treatment of Gingivitis with Ascorbic Acid. *Br Med J.* 1941 Mar 8;1(4183):360-1.
 - Carlsson J, Egelberg J. Effect of diet on early plaque formation in man. *Odontologisk Revy* 1965;16:112-25.
 - Carlsson J, Egelberg J. Local effect of diet on plaque formation and development of gingivitis in dogs. II. Effect of

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- high carbohydrate versus high protein-fat diets. *Odontologisk Revy* 1965;16:42-9.
- Chawla TN, Glickman I. Protein deprivation and the periodontal structures of the albino rat. *Oral Surg Oral Med Oral Pathol* 1951;4:578-602.
 - Chengappa MM, Staats J, Oberst RD, et al. Prevalence of Salmonella in raw meat used in diets of racing greyhounds. *J Vet Diag Invest* 1993;5:372-7.
 - Ciancio SG. Chemical agents: plaque control, calculus reduction and treatment of dentin hypersensitivity. In: *Periodontology 2000: mechanical and chemical supragingival plaque control*. Cambridge (MA): Munksgaard International Publishers Ltd.; 1995. p. 75-86.
 - Ciancio SG. Agents for the management of plaque and gingivitis. *J Am Coll Dent*. 1989 Fall;56(3):14-20. Review.
 - Clarke DE, Kelman M, Perkins N. Effectiveness of a vegetable dental chew on periodontal disease parameters in toy breed dogs. *J Vet Dent*. 2011 Winter;28(4):230-5.
 - Clarke DE. Drinking water additive decreases plaque and calculus accumulation in cats. *J Vet Dent*. 2006 Jun;23(2):79-82.
 - Clarke DE. Clinical and microbiological effects of oral zinc ascorbate gel in cats. *J Vet Dent* 2001;18:177-83.
 - Clavero J, Baca P, Junco P, González MP. Effects of 0.2% chlorhexidine spray applied once or twice daily on plaque accumulation and gingival inflammation in a geriatric population. *J Clin Periodontol*. 2003 Sep;30(9):773-7.
 - Cleland WP Jr. Opportunities and obstacles in veterinary dental drug delivery. *Adv Drug Deliv Rev*. 2001 Sep 1;50(3):261-75.
 - Cohen DW, editors. *Contemporary periodontics*. St. Louis (MO): CV Mosby; 1990. p. 3-32.
 - Cohen M. A new era in halitosis and periodontal treatment. *Dent Today*. 1998 Aug;17(8):88-9.
 - Colyer F. Dental disease in animals. *Br Dent J* 1947;82:31-5.
 - Colyer F. Variation in number, size and shape. In: Miles AEW, Grigson C, editors. *Variations and diseases of the teeth of animals*. New York: Cambridge University Press; 1990. p. 62-4.
 - Coria-Avila GA, González-Hernández JL, Rosales-Raya JB, Aguirre-Manzo ML, Cibrian-Llenderal T, Herrera-Covarubias D, Espin-Iturbe LT, Manzo J. Halitosis and weight loss in a cat. *Lab Anim (NY)*. 2010 Jun;39(6):169-70, 172-3.
 - Cronin MJ, Dembling WZ, Cugini M, Thompson MC, Warren PR. A 30-day clinical comparison of a novel interdental cleaning device and dental floss in the reduction of plaque and gingivitis. *J Clin Dent*. 2005;16(2):33-7.
 - Cupp CJ, Gerheart LA, Pinnick DV, et al. Reduction of plaque and tartar accumulation in cats and its role in a feline dental health program. In: *Friskies product technology center bulletin*; 2000.
 - DeBowes LJ, Mosier D, Logan EI, et al. Association of periodontal disease and histologic lesions in multiple organs from 45 dogs. *J Vet Dent* 1996;13:57-60.
 - DeBowes LJ. Dentistry: periodontal aspects. In: Ettinger SJ, Feldman EC, editors. *Textbook of veterinary internal medicine*. 5th edition. Philadelphia: WB Saunders; 2000. p. 1127-34.
 - DeBowes LJ. The effects of dental disease on systemic disease. *Vet Clin North Am Small Anim Pract* 1998;28(5):1057-62.
 - DePaola D, Faine MP, Vogel RI. Nutrition in relation to dental medicine. In: Shils ME, Olson JA, Shike M, editors. *Modern nutrition in health and disease*. 8th edition. Philadelphia: Lea & Febiger; 1994. p. 1007-28.
 - DePaola LG, Overholser CD, Meiller TF, et al. Chemotherapeutic inhibition of supragingival dental plaque and gingivitis development. *J Clin Periodontol* 1989;16:311-5.
 - Diehl K, Rosychuk RA. Feline gingivitis-stomatitis-pharyngitis. *Vet Clin North Am Small Anim Pract*. 1993 Jan;23(1):139-53.
 - DuPont G. Prevention of periodontal disease. *Vet Clin North Am Small Anim Pract* 1998;28(5):1129-45.
 - DuPont G. Understanding plaque: biofilm dynamics. *J Vet Dent* 1997;14:91-4.
 - DuPont GA. Prevention of periodontal disease. *Vet Clin North Am Small Anim Pract*. 1998 Sep;28(5):1129-45.
 - Dzanis DA. TheAAFCOdog and cat food nutrient profiles. In: Bonagura JD, editor. *Current veterinary therapy XII*. Philadelphia: WB Saunders; 1995. p. 1418-21.
 - Ecanow B, Blake MI. Plaque prevention: suspension theory and ascorbic acid and urea. *J Pharm Sci*. 1978 May;67(5):IV.
 - Fedi PF. Etiology of periodontal disease. In: *The periodontic syllabus*. Philadelphia: Lea & Febiger; 1985. p. 13-8.
 - Flötra L, Johansen JR, Gjermo P. The effect of Ascoxal-T on experimental gingivitis and plaque formation. *J Periodontal Res*. 1969;4(2):171.
 - Forcella BA. A rationale for the use of antimicrobials in prevention and treatment of periodontal disease. *Bull Ninth Dist Dent Soc*. 1988 Mar;72(1):18-21.
 - Freeman LM, Michel KE. Evaluation of raw food diets for dogs. *J Am Vet Med Assoc* 2001;218:705-9, 1716.
 - Frentzen M, Ploenes K, Braun A. Clinical and microbiological effects of local chlorhexidine applications. *Int Dent J*.



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- 2002 Oct;52(5):325-9.
- Gad T. Periodontal disease in dogs. J Periodont Res 1968;3:268-72.
 - Gaffar A, Solis-Gaffar MC, Tavss E, Marcussen HW, Rustogi KN. Long-term antiplaque, anticalculus, and antigingivitis effects of benzethonium/polymer complex in beagle dogs. J Dent Res. 1981 Nov;60(11):1897-1903.
 - Genco RJ. Pathogenesis and host responses in periodontal disease. In: Genco RJ, Goldman HM, Cohen DW, editors. Contemporary periodontics. St. Louis (MO): CV Mosby; 1990. p. 184-93.
 - Gengler W. A study to assess efficacy of a prophylactic dental product in dogs. Proceedings of the 18th Veterinary Dental Forum, 2004; 152.
 - Gengler WR, Kunkle BN, Romano D, Larsen D. Evaluation of a barrier dental sealant in dogs. J Vet Dent. 2005 Sep;22(3):157-9.
 - Gioso MA, Carvalho VGG. Oral anatomy of the dog and cat in veterinary dentistry practice. Vet Clin North Am Small Anim Pract 2005;35:763-80.
 - Girão VC, Nunes-Pinheiro DC, Morais SM, Sequeira JL, Gioso MA. A clinical trial of the effect of a mouth-rinse prepared with Lippia sidoides Cham essential oil in dogs with mild gingival disease. Prev Vet Med. 2003 May 30;59(1-2):95-102.
 - Golden AL, Stoller N, Harvey CE. A survey of oral and dental diseases in dogs anesthetized at a veterinary hospital. J Am Anim Hosp Assoc 1982;18:891-9.
 - Goldschmidt MC. Reduced bactericidal activity in neutrophils from scorbutic animals and the effect of ascorbic acid on these target bacteria in vivo and in vitro. Am J Clin Nutr. 1991 Dec;54(6 Suppl):1214S-1220S.
 - Golub LM, Ryan ME, Williams RC. Modulation of the host response in the treatment of periodontitis. Dent Today 1998; 17: 102-109.
 - Gorrel C, Bierer TL. Long-term effects of a dental hygiene chew on the periodontal health of dogs. J Vet Dent. 1999 Sep;16(3):109-13.
 - Gorrel C, Inskeep G, Inskeep T. Benefits of a 'dental hygiene chew' on the periodontal health of cats. J Vet Dent. 1998 Sep;15(3):135-8.
 - Gorrel C, Warrick J, Bierer TL. Effect of a new dental hygiene chew on periodontal health in dogs. J Vet Dent. 1999 Jun;16(2):77-81.
 - Gray H. Pyorrhoea in the dog. Vet Rec 1923;10:167-9.
 - Grossman E, Hou L, Bollmer BW, Court LK, McClary JM, Bennett S, Winston JL, McClanahan SF. Triclosan/pyrophosphate dentifrice: dental plaque and gingivitis effects in a 6-month randomized controlled clinical study. J Clin Dent. 2002;13(4):149-57.
 - Grove TK. Periodontal disease. In: Harvey CE, editor. Veterinary dentistry. Philadelphia: WB Saunders; 1985. p. 59-78.
 - Gruet P, Gaillard C, Boisramé B, Duffaut D, Grimoud AM, Camy G. Use of an oral antiseptic bioadhesive tablet in dogs. J Vet Dent. 1995 Sep;12(3):87-91.
 - Hale FA. Juvenile veterinary dentistry. Vet Clin North Am Small Anim Pract 2005;35: 789-817.
 - Hale FA. Home care for the dental patient. In: Debraekeleer J, Meyer H, editors. Proceedings of the Hill's European Symposium on Oral Care. Watford, UK; 2003. p. 50-9.
 - Hale FA. Home care for the veterinary dental patient. J Vet Dent 2003; 20: 52-54.
 - Hale FA. Home Care Products Evaluating the Claims. Proceedings of the 16th Annual Veterinary Dental Forum. Savannah, GA, USA; 2002.
 - Hale FA. The owner-animal-environment triad in the treatment of canine periodontal disease. J Vet Dent 2003;20:118-22.
 - Hamp SE, Emilson CG. Some effects of chlorhexidine on the plaque flora of the beagle dog. J Periodont Res 1973;12:28-35.
 - Hamp SE, Lindhe J, Loe H. Long-term effects of chlorhexidine on developing gingivitis in the beagle dog. J Periodont Res 1973;8:63-70.
 - Hamp SV, Lindberg R. Histopathology of spontaneous periodontitis in dogs. J Periodont Res 1971;6:266-77.
 - Hamp SV, Viklands P, Farso-Madsen K, et al. Prevalence of periodontal disease in dogs. J Dent Res 1975;(SIA):19.
 - Harvey CE. Management of periodontal disease: understanding the options. Vet Clin North Am Small Anim Pract 2005;35(4):819-36.
 - Harvey CE, Shofer FS, Laster L. Correlation of diet, other chewing activities and periodontal disease in North American client-owned dogs. J Vet Dent 1996;3:101-5.
 - Harvey CE, Thornsberry C, Miller BR. Subgingival bacteria--comparison of culture results in dogs and cats with gingivitis. J Vet Dent. 1995 Dec;12(4):147-50.

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Ficha Técnica

- Harvey CE. Establishment of a veterinary oral health center proposed to AVMA. J Vet Dent 1995;12:115-7.
- Harvey CE, Emily PP. Periodontal disease. In: Ladig D, editor. Small animal dentistry. St. Louis (MO): Mosby-Year Book; 1993. p. 89-144.
- Harvey CE. Function and formation of the oral cavity. In: Veterinary dentistry. Philadelphia: WB Saunders; 1985. p. 5-22.
- Hefferen JJ, Schiff TG, Smith MR. Assessment methods and clinical outcomes: chemical and microbial composition, formation, and maturation dynamics of pellicle, plaque, and calculus. J Vet Dent. 1994 Aug;11(2):75-9.
- Hennet P. Effectiveness of a dental gel to reduce plaque in beagle dogs. J Vet Dent 2002;19:11-4.
- Hennet P. Effectiveness of an enzymatic rawhide dental chew to reduce plaque in beagle dogs. J Vet Dent. 2001 Jun;18(2):61-4.
- Hennet P. Review of studies assessing plaque accumulation and gingival inflammation in dogs. J Vet Dent. 1999 Mar;16(1):23-9.
- Hennet PR, Delille B, Davot JL. Oral malodor measurements on a tooth surface of dogs with gingivitis. Am J Vet Res. 1998 Mar;59(3):255-7.
- Henrikson PA. Periodontal disease and calcium deficiency. An experimental study in the dog. Acta Odontol Scand 1968;26(Suppl 50):1-132.
- Hernandez-Cott PL, Elias Boneta A, Stewart B, DeVizio W, Proskin HM. Clinical investigation of the efficacy of a commercial mouthrinse containing 0.05% cetylpyridinium chloride in reducing dental plaque. J Clin Dent. 2009;20(2):39-44.
- Hoffman TH, Gaengler P. Epidemiology of periodontal disease in poodles. J Small Anim Pract 1996;37:309-16.
- Holmstrom SE, Bellows J, Juriga S, Knutson K, Niemiec BA, Perrone J. 2013 AAHA Dental Care Guidelines for Dogs and Cats. JAAHA 2013;Mar-Apr
- Holmstrom SE, Frost P, Eisner ER. Periodontal therapy and surgery. In: Holmstrom SE, Frost P, Eisner ER, eds. Veterinary dental techniques. 3rd ed, Philadelphia: WB Saunders, 2004:233-290.
- Howell TH, Fiorellini J, Weber HP, Williams RC. Effect of the NSAID piroxicam, topically administered, on the development of gingivitis in beagle dogs. J Periodontol Res. 1991 May;26(3 Pt 1):180-3.
- Howell TH, Reddy MS, Weber HP, Li KL, Alfano MC, Vogel R, Tanner AC, Williams RC. Sulfadiazines prevent plaque formation and gingivitis in beagles. J Periodontol Res. 1990 Jul;25(4):197-200.
- Hu D, Zhang YP, DeVizio W, Proskin HM. A clinical investigation of the efficacy of two dentifrices for controlling oral malodor and plaque microflora overnight. J Clin Dent. 2008;19(3):106-10.
- Hugoson A, Lundgren D, Asklöw B, Borgklint G. Effect of three different dental health preventive programmes on young adult individuals: a randomized, blinded, parallel group, controlled evaluation of oral hygiene behaviour on plaque and gingivitis. J Clin Periodontol. 2007 May;34(5):407-15.
- Hull PS, Davis RM. The effect of a chlorhexidine gel on tooth deposits in beagle dogs. J Small Anim Pract 1972;13:207-12.
- Igić M, Mihailović D, Kesić L, Apostolović M, Kostadinović L, Janjić OT, Milasin J. [Efficacy of hyaluronic acid in the treatment of chronic gingivitis in children]. Vojnosanit Pregl. 2011 Dec;68(12):1021-5.
- Ingham K. Effect of a dental chew on dental substrates and gingivitis in cats. J Vet Dent. 2003 Sep;20(3):136.
- Ingham KE, Gorrel C, Bierer TL. Effect of a dental chew on dental substrates and gingivitis in cats. J Vet Dent. 2002 Dec;19(4):201-4. Erratum in: J Vet Dent. 2003 Sep;20(3):136.
- Ingham KE, Gorrel C, Blackburn JM, et al. The effect of toothbrushing on periodontal disease in cats. J Nutr 2002; 132: 1740S-1741S.
- Ismail AI. Relation between ascorbic acid intake and periodontal disease in the United States. J Am Dent Assoc 1983;107:927-31.
- Isogai H, Isogai E, Okamoto H, et al. Epidemiological study on periodontal diseases and some other dental disorders in dogs. Jpn J Vet Sci 1989;51:1151-62.
- Jannesson L, Renvert S, Kjellsdotter P, et al. Effect of a triclosan-containing toothpaste supplemented with 10% xylitol on mutans streptococci in saliva and dental plaque. A 6-month clinical study. Caries Res 2002;36:36-9.
- Jared H, Zhong Y, Rowe M, Ebisutani K, Tanaka T, Takase N. Clinical trial of a novel interdental brush cleaning system. J Clin Dent. 2005;16(2):47-52.
- Jeffcoat MK, Geurs NC, Reddy MS, et al. Current evidence regarding periodontal disease as a risk factor in preterm birth. Ann Periodontol 2001;6(1):183-8.
- Jeffcoat M. Chemical plaque control: how do you advise your patients? Int Dent J. 1993 Aug;43(4 Suppl 1):415-21.
- Jensen L, Logan EI, Finney O, et al. Reduction in accumulation of plaque, stain and calculus in dogs by dietary means. J Vet Dent 1995;12:161-3.
- Jentsch H, Pomowski R, Kundt G, Göcke R. Treatment of gingivitis with hyaluronan. J Clin Periodontol. 2003



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- Feb;30(2):159-64.
- Joffe DJ, Schlesinger DP. Preliminary assessment of the risk of Salmonella infection in dogs fed raw chicken diets. *Can Vet J* 2002;43:441-2.
 - Johansen JR, Flötra L, Gjermo P. A clinical evaluation of the effect of Ascoxal T on plaque formation and gingivitis. *Acta Odontol Scand.* 1970 Nov;28(5):661-77.
 - Jolkovsky DL, Ciano SG. Chemotherapeutic agents in the treatment of periodontal diseases. In: Newman MG, Takei HH, Carranza FA, eds. *Clinical periodontology*. 9th ed. Philadelphia: WB Saunders, 2002; 675-687.
 - Jones CG. Chlorhexidine: is it still the gold standard? *Periodontol* 2000 1997; 1: 55-62.
 - Kamagate A, Kone D, Coulibaly NT, Ahnqox A, Sixou M. [The place of chemical products in oral hygiene for the prevention and treatment of periodontal disease]. *Odontostomatol Trop.* 2004 Jun;27(106):40-4.
 - Kara C, Tezel A, Orbak R. Effect of oral hygiene instruction and scaling on oral malodour in a population of Turkish children with gingival inflammation. *Int J Paediatr Dent.* 2006 Nov;16(6):399-404.
 - Kavanagh TH. Case report: control of stomatitis by use of an astringent obtundent. *J Vet Dent.* 1988 Mar;5(1):13.
 - King JD. Abnormalities in the gingival and subgingival tissues due to diets deficient in vitamin A and carotene. *Br Dent J* 1940;68:349-60.
 - Kneist W, Hempel B, Borelli S. [Clinical double-blind trial of topical zinc sulfate for herpes labialis recidivans]. *Arzneimittelforschung.* 1995 May;45(5):624-6.
 - Kornman KS. The role of supragingival plaque in the prevention and treatment of periodontal diseases. *J Periodont Res* 1986;5-22.
 - Kraivaphan P, Amornchat C, Triratana T. Effects of a triclosan dentifrice on plaque formation, gingivitis and gingival bleeding in pregnant women: five-month clinical results. *Southeast Asian J Trop Med Public Health.* 2007 May;38(3):594-7.
 - Krook L, Lutwak L, Whalen JP, et al. Human periodontal disease. Morphology and response to calcium therapy. *Cornell Vet* 1972;62:32-53.
 - Krook L, Whalen JP, Less GV, et al. Human periodontal disease and osteoporosis. *Cornell Vet* 1972;62:371-81.
 - Lamster IB, Alfano MC, Seiger MC, et al. The effect of Listerine antiseptic on reduction of existing plaque and gingivitis. *Clin Prev Dent* 1983;5:112-5.
 - Lang NP, Sander L, Barlow A, Brennan K, White DJ, Bacca L, Bartizek RD, McClanahan SF. Experimental gingivitis studies: effects of triclosan and triclosan-containing dentifrices on dental plaque and gingivitis in three-week randomized controlled clinical trials. *J Clin Dent.* 2002;13(4):158-66.
 - Lee SS, Aprecio RM, Zhang W, Arambula M, Wilkins KB, Stephens JA, Kim JS, Li Y. Antiplaque/antigingivitis efficacy and safety of a cetylpyridinium chloride/zinc gluconate mucoadhesive gel. Results of a 6-month clinical trial. *Compend Contin Educ Dent.* 2008 Jun;29(5):302-4, 306, 308 passim.
 - LeJeune JT, Hancock DD. Public health concerns associated with feeding raw meat diets to dogs. *J Am Vet Med Assoc* 2001;219:1222-5.
 - Lewis TM. Resistance of dogs to dental caries: a two-year study. *J Dent Res* 1965;44: 1354-7.
 - Lindhe J. Textbook of clinical periodontology. 2nd ed. Copenhagen: Munksgaard, 1993: 386-421.
 - Lindhe J. Pathogenesis of plaque-associated periodontal disease. In: Textbook of clinical periodontology. 2nd edition. Copenhagen (Denmark): WB Saunders; 1989. p. 189-205.
 - Löe H, Listgarten MA, Terranova VP. The gingiva. In: Genco RJ, Goldman HM,
 - Logan EI, Finney O, Hefferen JJ. Effects of a dental food on plaque accumulation and gingival health in dogs. *J Vet Dent* 2002;19:15-8.
 - Logan EI, Finney O, Hefferen JJ. Effects of a dental food on plaque accumulation and gingival health in dogs. *J Vet Dent.* 2002 Mar;19(1):15-8.
 - Logan EI, Wiggs RB, Zetner K, et al. Dental disease. In: Hand MS, Thatcher CD, Remillard RL, et al, editors. *Small animal clinical nutrition*. 4th edition. Topeka (KS): Mark Morris Institute; 2000. p. 475-92.
 - Logan EI, Berg ML, Coffman L, et al. Dietary control of feline gingivitis: results of a six month study. *Proceedings of the 13th Veterinary Dental Forum*, 1999; 54.
 - Logan EI. Oral cleansing by dietary means: feline methodology and study results. In: Logan EI, Hefferen JJ, editors. *Proceedings of the Companion Animal Oral Health Conference*. Topeka (KS); 1996. p. 31-4.
 - Logan EI. Oral cleansing by dietary means: results of six-month studies. In: Logan EI, Hefferen JJ, editors. *Proceedings of the Companion Animal Oral Health Conference*. Topeka (KS); 1996. p. 11-5.
 - Lommer MJ, Verstraete FJ. Radiographic patterns of periodontitis in cats: 147 cases (1998-1999). *J Am Vet Med Assoc* 2001; 218: 230-234.
 - Lotufo R, Calil CM, Feng HS, Sekiguchi RT, Stewart B, DeVizio W, Proskin HM. Clinical investigation of the efficacy of a commercial mouthrinse containing 0.05% cetylpyridinium chloride in preventing dental plaque. *J Clin Dent.*

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Ficha Técnica

2009;20(2):50-4.

- Loux JJ, Alioto R, Yankell SL. Effects of glucose and urea on dental deposit pH in dogs. J Dent Res 1972;51:1610-3.
- Low SB, Peak RM, Smithson CW, Perrone J, Gaddis B, Kontogiorgos E. Evaluation of a topical gel containing a novel combination of essential oils and antioxidants for reducing oral malodor in dogs. Am J Vet Res. 2014 Jul;75(7):653-7. doi: 10.2460/ajvr.75.7.653.
- Lund EM, Armstrong PJ, Kirk CA, et al. Health status and population characteristics of dogs and cats examined at private veterinary practices in the United States. J Am Vet Med Assoc 1999;214:1336-41.
- Lyon KF. The differential diagnosis and treatment of gingivitis in the cat. Probl Vet Med. 1990 Mar;2(1):137-51.
- MacMillan AD, Nelson DL, Munger RJ, Wolf ED, Scagliotti RH, Bellhorn RW, Shaw D, Schmidt G, Dice PF. Efficacy of zinc citrate ascorbate for treatment of canine cataracts. J Am Vet Med Assoc. 1989 Jun 1;194(11):1581-2.
- Makinen KK, Scheinin A. Turku sugar studies VII; principal biochemical findings on whole saliva and plaque. Acta Odontol Scand 1975;33:129-71.
- Mallonee DH, Harvey CE, Venner M, et al. Bacteriology of periodontal disease in the cat. Arch Oral Biol 1988; 33: 677-683.
- Manfra Marretta S. Recognition of feline oral lesions. Proceedings of the Atlantic Coast Veterinary Conference, 2001.
- Mankodi S, Bauroth K, Witt JJ, Bsoul S, He T, Gibb R, Dunavent J, Hamilton A. A 6-month clinical trial to study the effects of a cetylpyridinium chloride mouthrinse on gingivitis and plaque. Am J Dent. 2005 Jul;18 Spec No:9A-14A.
- Mankodi S, Lopez M, Smith I, Petrone DM, Petrone ME, Chaknis P, Proskin HM. Comparison of two dentifrices with respect to efficacy for the control of plaque and gingivitis, and with respect to extrinsic tooth staining: a six-month clinical study on adults. J Clin Dent. 2002;13(6):228-33.
- Marett SM. Current concepts in canine and feline dentistry. In: Kirk RW, Bonagura JD, eds. Current veterinary therapy XII. Philadelphia: WB Saunders, 1994; 685-691.
- Mateu FA, Boneta AE, DeVizio W, Stewart B, Proskin HM. A clinical investigation of the efficacy of two dentifrices for controlling established supragingival plaque and gingivitis. J Clin Dent. 2008;19(3):85-94.
- McClanahan SF, Bartizek RD. Effects of triclosan/copolymer dentifrice on dental plaque and gingivitis in a 3-month randomized controlled clinical trial: influence of baseline gingivitis on observed efficacy. J Clin Dent. 2002;13(4):167-78.
- Menghini P, Sapelli PL. [Use of hexetidine as an oral cavity antiseptic]. Minerva Stomatol. 1980 May-Jun;29(3):159-62.
- Milella L. Equipping vets to deal with animals' dental health needs. J Small Anim Pract. 2003 Dec;44(12):571.
- Miller BR, Harvey CE. Compliance with oral hygiene recommendations following periodontal treatment in client-owned dogs. J Vet Dent 1994;11(1):18-9.
- Miller EP, Cullor JS. Food safety. In: Hand MS, Thatcher CD, Remillard RL, et al, editors. Small animal clinical nutrition. 4th edition. Topeka (KS): Mark Morris Institute; 2000. p. 183-98.
- Moran J, Newcombe RG, Wright P, Haywood J, Marlow I, Addy M. A study into the plaque-inhibitory activity of experimental toothpaste formulations containing antimicrobial agents. J Clin Periodontol. 2005 Aug;32(8):841-5.
- Moran J, Addy M, Corry D, Newcombe RG, Haywood J. A study to assess the plaque inhibitory action of a new zinc citrate toothpaste formulation. J Clin Periodontol. 2001 Feb;28(2):157-61.
- Müller HP, Barrieshi-Nusair KM, Könönen E, Yang M. Effect of triclosan/copolymer-containing toothpaste on the association between plaque and gingival bleeding: a randomized controlled clinical trial. J Clin Periodontol. 2006 Nov;33(11):811-8. Epub 2006 Sep 11.
- Nachnani S. The effects of oral rinses on halitosis. J Calif Dent Assoc. 1997 Feb;25(2):145-50.
- Navia JM. Experimental oral calculus. In: Animal models in dental research. Tuscaloosa (AL): University of Alabama Press; 1977. p. 298-311.
- Neiva RF, Steigenga J, Al-Shammari KF, et al. Effects of specific nutrients on periodontal disease onset, progression and treatment. J Clin Periodontol 2003;30:579-89.
- Newman MG, Takei HH, Carranza FA. Clinical periodontology. 9th ed. Philadelphia: WB Saunders, 2002; 354-370.
- Norris JM, Love DN. In vitro antimicrobial susceptibilities of three Porphyromonas spp and in vivo responses in the oral cavity of cats to selected antimicrobial agents. Aust Vet J 2000; 78: 533-537.
- Nossek H. [Chemoprevention of gingivitis]. Stomatol DDR. 1984 Oct;34(10):660-4.
- Øgaard B, Alm AA, Larsson E, Adolfsson U. A prospective, randomized clinical study on the effects of an amine fluoride/stannous fluoride toothpaste/mouthrinse on plaque, gingivitis and initial caries lesion development in orthodontic patients. Eur J Orthod. 2006 Feb;28(1):8-12.



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Gel Oral Mucoadhesivo y Toallitas de Fácil Aplicación para una Higiene Buco-Dental de Alta Eficacia y Seguridad en Perros, Gatos, Exóticos y Caballos.



- Ozaki F, Pannuti CM, Imbronito AV, Pessotti W, Saraiva L, de Freitas NM, Ferrari G, Cabral VN. Efficacy of a herbal toothpaste on patients with established gingivitis--a randomized controlled trial. *Braz Oral Res.* 2006 Apr-Jun;20(2):172-7.
- Page RC. The role of inflammatory mediators in the pathogenesis of periodontal disease. *J Periodontol Res* 1991; 26: 230-242.
- Page RC, Schroeder HE. Spontaneous chronic periodontitis in adult dogs. *J Periodontol* 1979;52:60-73.
- Paquette DW, Simpson DM, Friden P, Braman V, Williams RC. Safety and clinical effects of topical histatin gels in humans with experimental gingivitis. *J Clin Periodontol.* 2002 Dec;29(12):1051-8.
- Pedersen NC. Inflammatory oral cavity diseases of the cat. *Vet Clin North Am Small Anim Pract.* 1992 Nov;22(6):1323-45.
- Perry DA. Plaque control for the periodontal patient. In: Newman MG, Takei HH, Carranza FA, eds. *Clinical periodontology*. 9th ed. Philadelphia: WB Saunders, 2002; 651-674.
- Peter S, Nayak DG, Philip P, Bijlani NS. Antiplaque and antigingivitis efficacy of toothpastes containing Triclosan and fluoride. *Int Dent J.* 2004;54(5 Suppl 1):299-303.
- Petrova E, Nachev Ch, Aleksiev N. [Zinc aspartate treatment of pneumoconiosis]. *Med Tr Prom Ekol.* 1997;(10):33-6.
- Putt MS, Milleman JL, Davidson KR, Kleber CJ, Cugini M. A split-mouth comparison of a three-dimensional-action electric toothbrush and a high-frequency electric toothbrush for reducing plaque and gingivitis. *J Int Acad Periodontol.* 2001 Oct;3(4):95-103.
- Quest BW. Oral health benefits of a daily dental chew in dogs. *J Vet Dent.* 2013 Summer;30(2):84-7.
- Rassameemasmaung S, Sirikulsathean A, Amornchat C, Hirunrat K, Rojanapanthu P, Gritsanapan W. Effects of herbal mouthwash containing the pericarp extract of *Garcinia mangostana* L on halitosis, plaque and papillary bleeding index. *J Int Acad Periodontol.* 2007 Jan;9(1):19-25.
- Rathe F, Auschill TM, Sculean A, Gaudszuhn Ch, Arweiler NB. The plaque and gingivitis reducing effect of a chlorhexidine and aluminium lactate containing dentifrice (Lacalut aktiv) over a period of 6 months. *J Clin Periodontol.* 2007 Aug;34(8):646-51.
- Rawlings JM, Gorrel C, Markwell PJ. Effect on canine oral health of adding chlorhexidine to a dental hygiene chew. *J Vet Dent* 1998;15(3):129-34.
- Rawlings JM, Gorrel C, Markwell PJ. Effect of two dietary regimens on gingivitis in the dog. *J Small Anim Pract.* 1997 Apr;38(4):147-51.
- Reichart PA, Dürr UM, Triadan H, et al. Periodontal disease in the domestic cat. *J Periodont Res* 1984;19:67-75.
- Reiter AM, Brady CA, Harvey CE. Local and systemic complications in a cat after poorlyperformed dental extractions. *J Vet Dent* 2004; 21: 215-221.
- Ribeiro DG, Pavarina AC, Giampaolo ET, Machado AL, Jorge JH, Garcia PP. Ribeiro DG, Pavarina AC, Giampaolo ET, Machado AL, Jorge JH, Garcia PP. Effect of oral hygiene education and motivation on removable partial denture wearers: longitudinal study. *Gerodontology.* 2009 Jun;26(2):150-6.
- Ritchey TW, Lamster IB, Mann PH, Alfano MC. The effect of zinc chloride on the development of gingivitis in beagle dogs treated with cetylpyridinium chloride. *J Dent Res.* 1982 Oct;61(10):1217-20.
- Robinson JGA, Gorrel C. The oral status of a pack of foxhounds fed a "natural" diet. In: *Proceedings of the FifthWorld Veterinary Dental Congress; 1997. WVDC.* p. 35-7.
- Roldán S, Winkel EG, Herrera D, Sanz M, Van Winkelhoff AJ. The effects of a new mouthrinse containing chlorhexidine, cetylpyridinium chloride and zinc lactate on the microflora of oral halitosis patients: a dual-centre, double-blind placebo-controlled study. *J Clin Periodontol.* 2003 May;30(5):427-34.
- Rose LF, Steinberg BJ, Minsk L. The relationship between periodontal disease and systemic conditions. *Compend Contin Educ Dent* 2000; 21: 870-877.
- Rosenberg HM, Rehfeld CE, Emmering TE. A method for the epidemiologic assessment of periodontal health-disease state in a beagle hound colony. *J Periodontol* 1966;37: 208-13.
- Rosin M, Kramer A, Bradtke D, Richter G, Kocher T. The effect of a SCN-/H2O2 toothpaste compared to a commercially available triclosan-containing toothpaste on oral hygiene and gingival health -- a 6-month home-use study. *J Clin Periodontol.* 2002 Dec;29(12):1086-91.
- Roudebush P, Logan EI, Hale FA. Evidence-based veterinary dentistry: a systematic review of homecare for prevention of periodontal disease in dogs and cats. *J Vet Dent* 2005;22(1):6-15.
- Ruben MP, McCoy J, Person P, et al. Effects of soft dietary consistency and protein deprivation on the periodontium of the dog. *Oral Surg Oral Med Oral Pathol* 1962;15:1061-70.
- Sallay K, Gera I, Kövesi G, Benedek E, Vámos I. [Reducing the incidence of plaque and gingivitis by the use of zinc chloride-containing toothpaste]. *Fogorv Sz.* 1979 Jul;72(7):193-7.

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Ficha Técnica

- Santos S, Herrera D, López E, O'Connor A, González I, Sanz M. A randomized clinical trial on the short-term clinical and microbiological effects of the adjunctive use of a 0.05% chlorhexidine mouth rinse for patients in supportive periodontal care. J Clin Periodontol. 2004 Jan;31(1):45-51.
- Saxe SR, Greene JC, Bohann HM, et al. Oral debris, calculus and periodontal disease in the beagle dog. Periodontics 1967;5:217-25.
- Schiff T, Proskin HM, Zhang YP, Petrone M, DeVizio W. A clinical investigation of the efficacy of three different treatment regimens for the control of plaque and gingivitis. J Clin Dent. 2006;17(5):138-44.
- Schiffner U, Bahr M, Effenberger S. Plaque and gingivitis in the elderly: a randomized, single-blind clinical trial on the outcome of intensified mechanical or antibacterial oral hygiene measures. J Clin Periodontol. 2007 Dec;34(12):1068-73.
- Sekino S, Ramberg P, Uzel NG, Socransky S, Lindhe J. Effect of various chlorhexidine regimens on salivary bacteria and de novo plaque formation. J Clin Periodontol. 2003 Oct;30(10):919-25.
- Sekino S, Ramberg P, Uzel NG, Socransky S, Lindhe J. The effect of a chlorhexidine regimen on de novo plaque formation. J Clin Periodontol. 2004 Aug;31(8):609-14.
- Sgan-Cohen HD, Vered Y. A clinical trial of the meridol toothbrush with conical filaments: evaluation of clinical effectiveness and subjective satisfaction. J Clin Dent. 2005;16(4):109-13.
- Sgan-Cohen HD, Vered Y. Plaque removal and oral health promotion potential for the elmex interX medium toothbrush: clinical efficacy and safety evaluation. J Clin Dent. 2003;14(3):70-3.
- Shapira L, Shapira M, Tandlich M, Gedalia I. Effect of amine fluoride-stannous fluoride containing toothpaste (Meridol) on plaque and gingivitis in adults: a six-month clinical study. J Int Acad Periodontol. 1999 Oct;1(4):117-20.
- Sharma N, Charles CH, Lynch MC, Qaqish J, McGuire JA, Galustians JG, Kumar LD. Adjunctive benefit of an essential oil-containing mouthrinse in reducing plaque and gingivitis in patients who brush and floss regularly: a six-month study. J Am Dent Assoc. 2004 Apr;135(4):496-504.
- Sharma NC, Galustians HJ, Qaqish J, Charles CH, Vincent JW, McGuire JA. Antiplaque and antigingivitis effectiveness of a hexetidine mouthwash. J Clin Periodontol. 2003 Jul;30(7):590-4.
- Shearer B, Hall P, Clarke P, Marshall G, Kinane DF. Reducing variability and choosing ideal subjects for experimental gingivitis studies. J Clin Periodontol. 2005 Jul;32(7):784-8.
- Sheen S, Pontefract H, Moran J. The benefits of toothpaste--real or imagined? The effectiveness of toothpaste in the control of plaque, gingivitis, periodontitis, calculus and oral malodour. Dent Update. 2001 Apr;28(3):144-7.
- Silva MF, dos Santos NB, Stewart B, DeVizio W, Proskin HM. A clinical investigation of the efficacy of a commercial mouthrinse containing 0.05% cetylpyridinium chloride to control established dental plaque and gingivitis. J Clin Dent. 2009;20(2):55-61.
- Sims TN, Ammons W. Resective osseous surgery. In: Newman MG, Takei HH, Carranza FA, eds. Clinical periodontology. 9th ed. Philadelphia: WB Saunders, 2002; 786-803.
- Singh M, Das RR. Clinical potential of zinc in prophylaxis of the common cold. Expert Rev Respir Med. 2011 Jun;5(3):301-3.
- Sitzman C. Evaluation of a hydrophilic gingival dental sealant in beagle dogs. J Vet Dent. 2013 Fall;30(3):150-5.
- Smith MM, Smithson CW. Dental wax decreases calculus accumulation in small dogs. J Vet Dent. 2014 Spring;31(1):26-9.
- Somu CA, Ravindra S, Ajith S, Ahamed MG. Efficacy of a herbal extract gel in the treatment of gingivitis: A clinical study. J Ayurveda Integr Med. 2012 Apr;3(2):85-90.
- Sorensen WP, Lo'e H, Ramfjord SP. Periodontal disease in the beagle dog. J Periodont Res 1980;15:380-9.
- Soskolne WA, Klinger A. The relationship between periodontal diseases and diabetes: an overview. Ann Periodontol 2001;6(1):91-8.
- Soukoulis S, Hirsch R. The effects of a tea tree oil-containing gel on plaque and chronic gingivitis. Aust Dent J. 2004 Jun;49(2):78-83.
- Southern EN, McCombs GB, Tolle SL, Marinak K. The comparative effects of 0.12% chlorhexidine and herbal oral rinse on dental plaque-induced gingivitis. J Dent Hyg. 2006 Winter;80(1):12.
- Sowinski J, Petrone DM, Wachs GN, Chakris P, Kemp J, Sprosta AA, DeVizio W. Efficacy of three toothbrushes on established gingivitis and plaque. Am J Dent. 2008 Dec;21(6):339-45.
- Sreenivasan P, Gaffar A. Antiplaque biocides and bacterial resistance: a review. J Clin Periodontol. 2002 Nov;29(11):965-74.
- Sreenivasan PK, Furgang D, Markowitz K, McKiernan M, Tischio-Bereski D, DeVizio W, Fine D. Clinical anti-microbial efficacy of a new zinc citrate dentifrice. Clin Oral Investig. 2009 Jun;13(2):195-202.
- Stookey GK, Warrick JM, Miller LL, et al. Hexametaphosphate-coated snack biscuits significantly reduce calculus



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- formation in dogs. J Vet Dent 1996;13:27-30.
- Stookey GK, Warrick JM, Miller LL. Sodium hexametaphosphate reduces calculus formation in dogs. Am J Vet Res 1995;56:913-8.
 - Studer E, Stapley RB. The role of dry foods in maintaining healthy teeth and gums in the cat. Vet Med Small Anim Clin. 1973 Oct;68(10):1124-6.
 - Suresh DK, Vandana KL, Mehta DS. Intracrevicular application of 0.3% Flurbiprofen gel and 0.3% Triclosan gel as anti inflammatory agent. A comparative clinical study. Indian J Dent Res. 2001 Apr-Jun;12(2):105-12.
 - Svanberg G, Lindhe J, Hugoson A, et al. Effect of nutritional hyperparathyroidism on experimental periodontitis in the dog. Scand J Dent Res 1973;81:155-62.
 - Talbot E. Interstitial gingivitis or so-called pyorrhoea alveolaris. Philadelphia: SS White
 - Tannock GW, Webster JR, Dobbinson SS. Feline gingivitis. N Z Vet J. 1988 Jun;36(2):93-4.
 - Tepe JH, Leonard GJ, Singer RE, et al. The long term effect of chlorhexidine on plaque, gingivitis, sulcul depth, gingival recession and loss of attachment in beagle dogs. J Periodontal Res 1983;18:452-8.
 - Terranova VP, Goldman HM, Listgarten MA. The periodontal attachment apparatus. In: Genco RJ, Goldman HM, Cohen DW, editors. Contemporary periodontics. St. Louis (MO): CV Mosby; 1990. p. 33-54.
 - Theyse LFH, Drieling HE, Dijkshoorn NA, et al. A comparative study of 4 dental home care regiments in client owned cats. In: Debraekeleer J, Meyer H, editors. Proceedings of the Hill's European Symposium on Oral Care. Watford, UK; 2003. p. 60-3.
 - Tholen M, Hoyt RF. Oral pathology. In: Bojrab MJ, Tholen M, eds. Small animal oral medicine and surgery. Philadelphia: Lea & Febiger, 1990; 42.
 - Tipton DA, Flynn JC, Stein SH, et al. Cyclooxygenase-2 inhibitors decrease interleukin-1betastimulated prostaglandin E2 and IL-6 production by human gingival fibroblasts. J Periodontol 2003; 74: 1754-1763.
 - Trejo PM, Bonaventura G, Weng D, Caffesse RG, Bragger U, Lang NP. Effect of mechanical and antiseptic therapy on peri-implant mucositis: an experimental study in monkeys. Clin Oral Implants Res. 2006 Jun;17(3):294-304.
 - Trombelli L, Scapoli C, Orlandini E, Tosi M, Bottega S, Tatakis DN. Modulation of clinical expression of plaque-induced gingivitis. III. Response of "high responders" and "low responders" to therapy. J Clin Periodontol. 2004 Apr;31(4):253-9.
 - Usher PJ. Oral hygiene in mentally handicapped children. A pilot study of the use of chlorhexidine gel. Br Dent J. 1975 Mar 18;138(6):217-21.
 - van der Weijden GA, Timmerman MF, Piscoer M, IJzerman Y, van der Velden U. A clinical comparison of three powered toothbrushes. J Clin Periodontol. 2002 Nov;29(11):1042-7.
 - van Foreest A. [Veterinary dentistry (11). Feline gingivitis-stomatitis-pharyngitis complex. Chronic/recurrent stomatitis in cats]. Tijdschr Diergeneesk. 1995 Oct 1;120(19):558-62.
 - Veterinary Oral Health Council. Available at: <http://www.vohc.org>. Accessed March 2006.
 - Vogel RI, Lamster IB, Wechsler SA, Macedo B, Hartley LJ, Macedo JA. The effects of megadoses of ascorbic acid on PMN chemotaxis and experimental gingivitis. J Periodontol. 1986 Aug;57(8):472-9.
 - Vrieling HE, Theyse LF, van Winkelhoff AJ, Dijkshoorn NA, Logan EI, Picavet P. [Effectiveness of feeding large kibbles with mechanical cleaning properties in cats with gingivitis]. Tijdschr Diergeneesk. 2005 Mar 1;130(5):136-40. Dutch.
 - Wara-aswapati N, Krongnawakul D, Jiraviboon D, Adulyanon S, Karimbux N, Pitiphat W. The effect of a new toothpaste containing potassium nitrate and triclosan on gingival health, plaque formation and dentine hypersensitivity. J Clin Periodontol. 2005 Jan;32(1):53-8.
 - Warrick JM, Stookey GK. Overview of clinical trials using sodium hexametaphosphate for the prevention of dental calculus. Proceedings of the 18th Veterinary Dental Forum, 2004; 272-276.
 - Warrick JM, Stookey GK, Inskeep GA, et al. Reducing calculus accumulation in dogs using an innovative rawhide treat system coated with hexametaphosphate. In: Proceedings of the 15th Veterinary Dental Forum; 2001. p. 379-82.
 - Warrick JM, Inskeep GA, Yonkers TD, Stookey GK, Ewing TH. Effect of clindamycin hydrochloride on oral malodor, plaque, calculus, and gingivitis in dogs with periodontitis. Vet Ther. 2000 Winter;1(1):5-16.
 - Watson ADJ. Diet and periodontal disease in dogs and cats. Aust Vet J 1994;71:313-8.
 - White DJ, Gerlach RW. Anticalculus effects of a novel, dual-phase polyphosphate dentifrice: chemical basis, mechanism and clinical response. J Contemp Dent Pract 2000;1:1-19.
 - Wiggs RB, Lobprise HB. Veterinary dentistry, principles & practice. Philadelphia: LippincottRaven, 1997
 - Wiggs RB, Lobprise HB, Tholen MA. Clinical evaluation of SofScale Calculus Scaling Gel in dogs and cats. J Vet Dent. 1994 Mar;11(1):9-13.



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- Williams CA, Aller MS. Gingivitis/stomatitis in cats. Vet Clin North Am Small Anim Pract. 1992 Nov;22(6):1361-83.
- Wilson TG Jr. How patient compliance to suggested oral hygiene and maintenance affect periodontal therapy. Dent Clin North Am 1998;42(2):389-403.
- Winkel EG, Roldán S, Van Winkelhoff AJ, Herrera D, Sanz M. Clinical effects of a new mouthrinse containing chlorhexidine, cetylpyridinium chloride and zinc-lactate on oral halitosis. A dual-center, double-blind placebo-controlled study. J Clin Periodontol. 2003 Apr;30(4):300-6.
- Winston JL, Bartizek RD, McClanahan SF, Mau MS, Beiswanger BB. A clinical methods study of the effects of triclosan dentifrices on gingivitis over six months. J Clin Dent. 2002;13(6):240-8.
- Witt J, Ramji N, Gibb R, Dunavent J, Flood J, Barnes J. Antibacterial and antiplaque effects of a novel, alcohol-free oral rinse with cetylpyridinium chloride. J Contemp Dent Pract. 2005 Feb 15;6(1):1-9.
- Witzemberger T, O'Leary TJ, Gillette WB. Effect of a local germicide on the occurrence of bacteremia during subgingival scaling. J Periodontol 1982; 53: 172-179. 4 Lantz GC. Regional anesthesia for dentistry and oral surgery. J Vet Dent 2003; 20: 181-186.
- Wolinsky LE, Cuomo J, Quesada K, et al. A comparative pilot study of the effects of a dentifrice containing green tea bioflavonoids, sanguinarine or triclosan on oral bacterial biofilm formation. J Clin Dent 2000;11:535-59.
- Wood BC. Management of rostral mandibular fracture including lateral luxation of a mandibular canine tooth in a dog. J Vet Dent 2003; 20: 91-94. 9 Harvey CE, Emily P. Small animal dentistry. St. Louis: Mosby-Year Book, 1993: 89-144.
- Yates RJ, Shearer BH, Morgan R, Addy M. A modification to the experimental gingivitis protocol to compare the antiplaque properties of two toothpastes. J Clin Periodontol. 2003 Feb;30(2):119-24.
- Yates R, Shearer BH, Huntington E, Addy M. A method to compare four mouthrinses: time to gingivitis level as the primary outcome variable. J Clin Periodontol. 2002 Jun;29(6):519-23.
- Zetner K, Plum G, Wolfe-Dieter R. Effect of clindamycin hydrochloride on gingival crevicular fluid and immune mediators in beagles. Vet Ther 2002; 3: 177-188. 41

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