Treating Chronic Gingival Inflammation: What’s New, What’s Old and Where’s the Evidence?

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Treating Chronic Gingival Inflammation: What’s New, What’s Old and Where’s the Evidence?

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Evidence-based publications/websites for information on products/treatments

1. PubMed: [www.pubmed.gov](http://www.pubmed.gov)
   - *Journal of Periodontology*
     - AAP Statement on the Efficacy of Lasers in the Non-Surgical Treatment of Inflammatory Periodontal Disease, J Periodontol, April 2011
     - 2008 Workshop on Inflammation; Inflammation and Periodontal diseases: A Reappraisal.
     - 2003 Workshop on Contemporary Science in Clinical Periodontics

**Position Papers:**
- The role of supra-and subgingival irrigation in the treatment of periodontal diseases. 2005
- Implications of Genetic Technology for the Management of Periodontal Diseases- 2005
- Systemic Antibiotics in Periodontics -2005
- Current understanding of the role of microscopic monitoring, baking soda and hydrogen peroxide in the treatment of periodontal disease- 1998
- Modulation of the host response in periodontal therapy- 2002
- Sonic and ultrasonic scalers in periodontics. 2000
- Periodontal management of patients with Cardiovascular Disease-2002
- Guidelines for Referral-2006

**Academy Statements:**
- Peri-Implant Mucositis and Peri-Implantitis: A Current Understanding of Their Diagnoses and Clinical Implications  AAP Academy Statement 2013
- The Efficacy of Lasers in the Non-surgical Treatment of Inflammatory Periodontal Disease 2011
- Comprehensive Periodontal Therapy 2010

3. International Academy of Periodontology
   - *Journal of the International Academy of Periodontology*

4. [www.blackwellpublishing.com](http://www.blackwellpublishing.com)
   - *Journal Clinical Periodontology*
   - Periodontology 2000
   - *International Journal of Dental Hygiene*

5. National Institute of Dental and Craniofacial Research (NIDCR):
   - [www.nidcr.nih.gov](http://www.nidcr.nih.gov)

6. International/American Association for Dental Research:
   - [www.dentalresearch.org](http://www.dentalresearch.org)
   - *Journal of Dental Research*
   - *Advances in Dental Research*

7. American Dental Association: [www.ada.org](http://www.ada.org)
Informative Corporate Websites

13. Procter & Gamble Company: www.dentalcare.com
    Journal of Contemporary Dental Practice


15. OraPharma, Inc: www.arestin.com


18. PerioSciences-- http://www.periosciences.com/control/main


22. GC America-- www.gcamerica.com

23. Izun Pharmaceuticals -- http://izunpharma.com/

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Recent noteworthy publications for Clinical Practice:


**Definitions:**

**Evidence based practice:** EB practice is an approach to the care and treatment of patients wherein the health professional includes the "conscientious, explicit, and judicious use of the most current, best evidence in making clinical decisions regarding the care of individual patients." Evidence-based practice is a process that restructures the way health professionals think about clinical problems. Traditionally, health professionals have placed high value on their accumulated personal knowledge and adherence to long-held standard practices when making clinical decisions. Conversely, an EB approach encourages the professional's integration of the resulting knowledge with clinical expertise and patient preferences to determine the best treatment for individual patients. EB practice therefore requires the blending of research knowledge with provider experience.1-5

![Evaluating Evidence Diagram](image)


**Comprehensive Periodontal Examination**

- Scope of Periodontal Therapy
- Periodontal Evaluation
Establishing a Diagnosis, Prognosis, and Treatment Plan
Informed Consent and Patient Records
Treatment Procedures
Evaluation of Therapy
Factors Modifying Results
Periodontal Maintenance Therapy

Common Antimicrobials Agents and How They Affect Biofilm Development and Adhesion

Cetylpyridinium Chloride (CPC): Works by rupturing the cell wall and altering the cytoplasm. CPC also decreases bacterial attachment to the pellicle.

Chlorhexidine (CHX): Works by binding to the pellicle and interfering with salivary mucin function to prevent biofilm accumulation. CHX causes cell lyses and the bacteriostatic concentrations interfere with the cell wall transport system.

Chlorine Dioxide: Works by neutralizing the volatile sulfur compounds that affect oral malodor so the agent is primarily used for cosmetic claims and not therapeutic benefits.

Essential oils (EO): Disrupts cell walls and inhibits bacterial enzymes. EO also decreases the pathogenicity of biofilm.

Stannous Fluoride: The tin ion binds to the bacterial surface which prevents colonization. Also, the accumulation of tin affects the metabolic activity of bacteria and alters cellular aggregation and metabolism.

Zinc Citrate: Zinc citrate or zinc chloride can effect bacterial adherence, alter bacterial metabolic activity and reduce the rate of bacterial growth.

Triclosan and copolymer: With both antimicrobial and anti-inflammatory properties, triclosan and copolymer affect the microbial cytoplasmic membrane causing leakage of the cell contents.

References:

Free Publications

2. Special issue: Periodontitis and Systemic Diseases - Proceedings of a workshop jointly held by the European Federation of Periodontology and American Academy of Periodontology. Volume: 84, Number: 4-s April 2013
6. Genco RJ and Williams RC. Periodontal Disease and Overall Health: A Clinician’s Guide.2010
   Editors’ Consensus: Periodontitis and Atherosclerotic Cardiovascular Disease. J Periodontol, July 2009
   http://www.adha.org/jdh/articles/JDHHerbalSuppl.pdf
    http://www.colgateprofessional.com/app/ColgateProfessional/US/EN/Products/ProductItems/ColgateTotal/WhitePapers.cvsp
11. ADA Policy on Evidence Based Dentistry.
    http://www.ada.org/prof/resources/positions/statements/evidencebased.asp
Free Patient Resources:

American Diabetes Association: Cardiovascular Disease Toolkit
http://professional.diabetes.org/ResourcesForProfessionals.aspx?typ=17&cid=60459

- All about Pre-diabetes
- Getting the Very Best Care for your Diabetes
- Taking Care of Type 2 Diabetes
- All About Your Blood Glucose for People with Type 2 Diabetes
- All About Insulin Resistance
- Protect Your Heart: Make Wise Food Choices
- Protect Your Heart: Choose Fats Wisely
- Protect Your Heart: Cook with Heart Healthy Foods
- Protect your Heart: Check Food Labels to Make Heart-Healthy Choices
- Protect Your Heart by Losing Weight
- Recognizing and Handling Depression for People with Diabetes
- Treating High Blood Pressure in People with Diabetes
- Taking Care of Your Heart
- Know the Warning Signs of a Heart Attack
- All About Stroke

National Institutes of Health / National Institute of Dental and Craniofacial Research
http://www.nidcr.nih.gov/OralHealth/

- Burning Mouth Syndrome
- Cancer Treatment and Oral Health
- Cleft Lip and Palate
- Developmental Disabilities and Oral Health
- Diabetes and Oral Health
- Dry Mouth (Xerostomia)
- Fillings (Amalgams)
- Fluoride
- Genetics
- Gum (Periodontal) Diseases
- Heart Disease and Oral Health
- HIV/AIDS
- Oral Cancer
- Organ Transplantation and Oral Health
- Pain (oral, facial)
- Pregnancy and Oral Health
- Saliva and Salivary Gland Disorders
- Sjögren's Syndrome
- Spit (Smokeless) Tobacco
- Taste Disorders
- TMJ (Temporomandibular Joint and Muscle Disorders)
- Tooth Decay (Caries)