



REJUVENATION DENTISTRY

ADVANCED HEALTH. LASTING BEAUTY.

TOXICITY AND THE MOUTH-BODY CONNECTION BRMI CONFERENCE 2018

PRESENTED BY
DR. GERRY CURATOLA
FOUNDER, DIRECTOR
REJUVENATION DENTISTRY, NEW YORK

•
CLINICAL ASSOCIATE PROFESSOR,
NEW YORK UNIVERSITY
COLLEGE OF DENTISTRY, NEW YORK





Oral Health is the “800 lb. Gorilla” in the Wellness Room.



If
body.



Dr. Weston A. Price and The Mouth-Body Connection



THE

DENTAL REVIEW.

Vol. XXXI

CHICAGO, APRIL, 1917

No. 4

THE PRESENT STATUS OF OUR KNOWLEDGE OF THE
RELATION OF MOUTH INFECTION TO
SYSTEMIC DISEASE.*

BY DR. WESTON A. PRICE, CLEVELAND, OHIO.

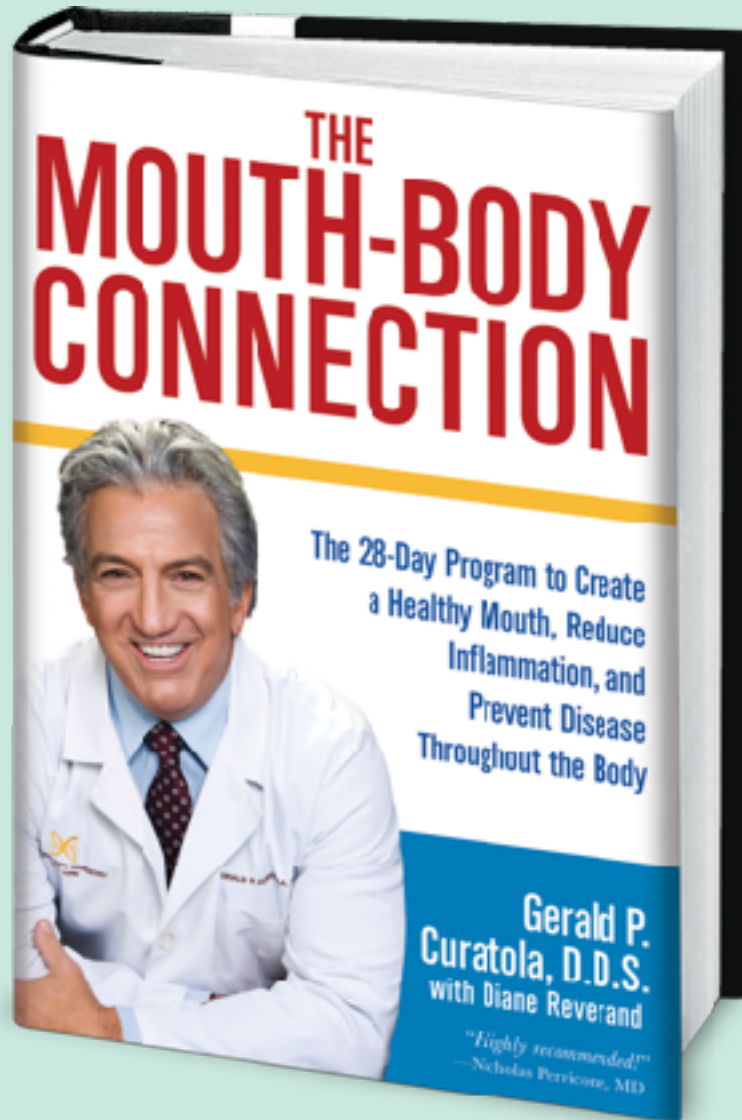
Mr. Chairman, and Members of the St. Louis Dental Society.

Without any introduction whatever of this particular subject, I shall ask you to consider with me one thing: That the acquisition of a new truth is identical with the acquisition of a new sense, for with it you can conceive, perceive and recognize things that you could not recognize before you had that new truth, and with that new truth you can perceive things that people without that truth cannot perceive. Have you got it? The acquisition of a new truth is identical with the acquisition of a new sense.

Let me give you an illustration. You take your little child out into the woods with you in the summertime when everything is dry. And you take your little revolver or your gun along, and you take some matches and a sharp knife or two. You do not leave them where that child can get hold of them. The child knows what a match is, it can strike a match, but the child does not know the danger of a fire.

Another illustration: Some twenty-three years ago next month, I was in Grand Forks, North Dakota, and came down with typhoid fever. One day I found myself lying on a cot in a hospital there with a physician on each side of the cot who were arguing, and almost coming to blows in discussing the question as to whether or not there was any truth in the germ theory of disease. Only twenty-three years ago; and the man who did not believe in the germ theory of disease was perfectly consistent in that belief, for

*Delivered before the St. Louis Dental Society, 60th anniversary, November, 1916.



The MOUTH acts as a MIRROR and GATEWAY, and reflects what is happening in the rest of your body. Chronic, low-grade oral disease is a major source of inflammation throughout your body, which can result in serious systemic problems, including cardiovascular disease, type 2 diabetes, obesity, and premature birth.



THE MOUTH AS MIRROR

SYSTEMIC CONDITION/DISEASE	ORAL SYMPTOMS/MANIFESTATIONS
• HIV/AIDS	• <i>OFTEN MANIFESTS AS FUNGI IN THE MOUTH</i>
• LOW BLOOD SUGAR	• <i>PRODUCES CHARACTERISTIC ODOR IN THE MOUTH</i>
• TUBERCULOSIS	• <i>CHARACTERISTIC ULCER ON TONGUE/ORAL TISSUES</i>
• XEROSTOMIA (DRY MOUTH)	• <i>RESULTS IN FORMATION OF RAPID DENTAL DECAY</i>
• TETANUS	• <i>INJECTION THAT MAY RESULT IN LOCKJAW</i>
• DIABETES	• <i>DELAYED WOUND HEALING/ADVANCED GUM DISEASE</i>
• LEUKAEMIA	• <i>CAN RESULT IN THE FORMATION OF ORAL ULCERS</i>
• SYPHILIS	• <i>TOOTH/PALATE MALFORMATION FOR CHILD IF PREGNANT</i>
• STRESS/PSYCHOLOGICAL DISORDERS	• <i>GRINDING, CLENCHING, AND TMJ JOINT PROBLEMS</i>
• DOWN SYNDROME	• <i>OFTEN INCLUDES AN ENLARGED TONGUE</i>
• DRUG ABUSE	• <i>ASSOCIATED WITH SEVERE CARIES AND TOOTH LOSS</i>
• BULIMIA	• <i>OFTEN CAUSES CHARACTERISTIC TOOTH EROSIONS</i>
• VARIOUS GENETIC SYNDROMES	• <i>CAUSES MALFORMATION OF THE TEETH AND JAWS</i>



SECRETS YOUR TONGUE REVEALS

About Your
HEALTH



FISSURES

Tongue fissures are a common symptom in 6 to 20 % of patients with psoriasis skin disorder.



WHITE CREAMY LAYER/PATCHES

A white, cottage cheese-like coating on the tongue, is one of the most common symptoms of "oral candidiasis" (OC) – a yeast infection of the mouth.



ABNORMAL SMOOTHNESS

Abnormal Smoothness of the tongue is known as atrophic glossitis (AG).



BRIGHT REDNESS

A bright red tongue could be a symptom of a Vitamin B12 deficiency.



THICK YELLOW COATING

A thick yellow coating on the tongue might just be indicative of excess bacterial activity.



BLACK AND HAIRY

A black and hairy tongue might be caused by excessive smoking and poor oral hygiene.



PAINLESS BUMP(S)

A painless bump that appears on the side of the tongue & goes away in 2 weeks or less is not a cause for alarm. However, if it persists longer then it could be an early sign of oral cancer.

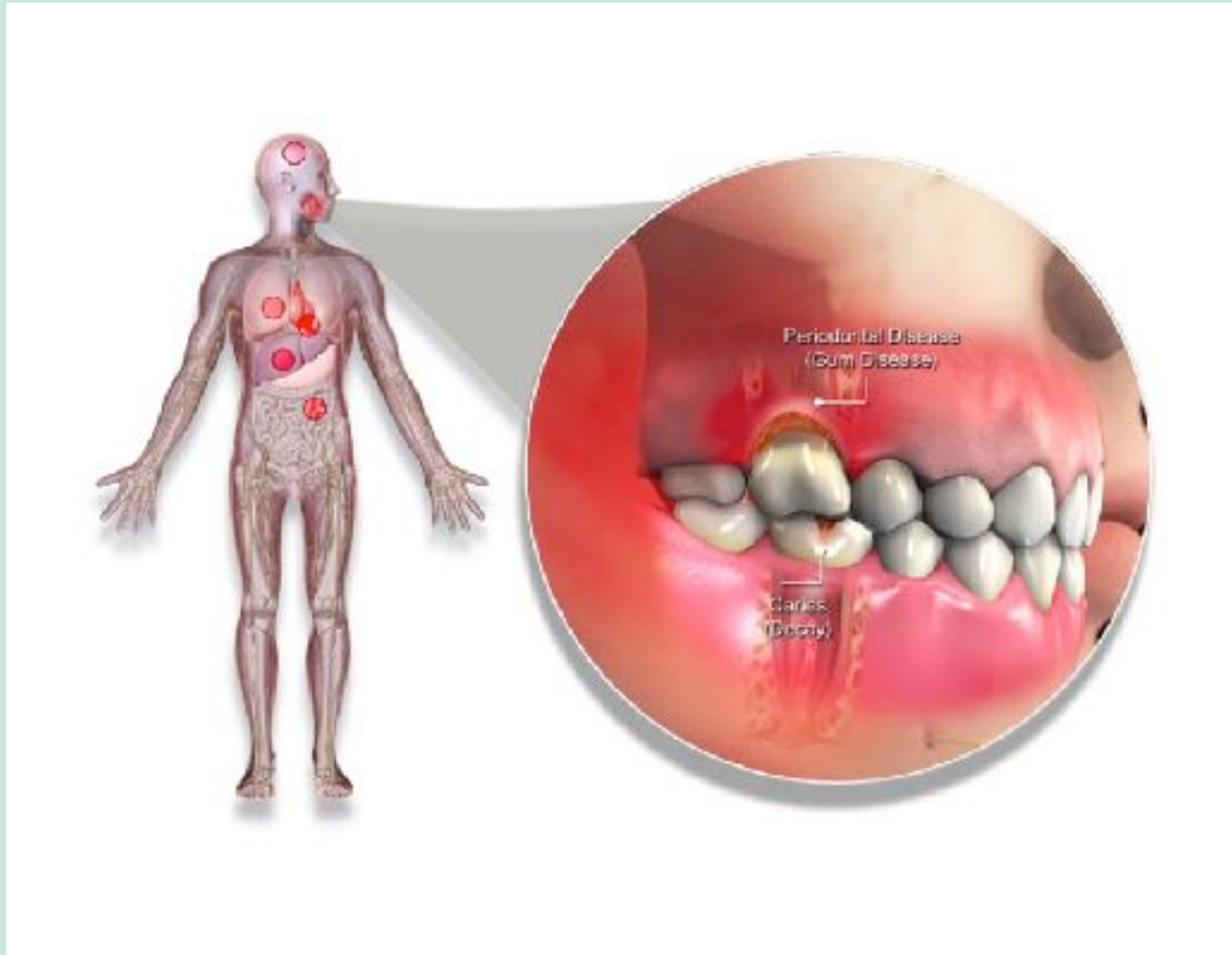


SORES

Tongue sores usually result from eating something sharp or from accidentally biting your tongue. However, they may also signify stress, anxiety or a hormonal imbalance.

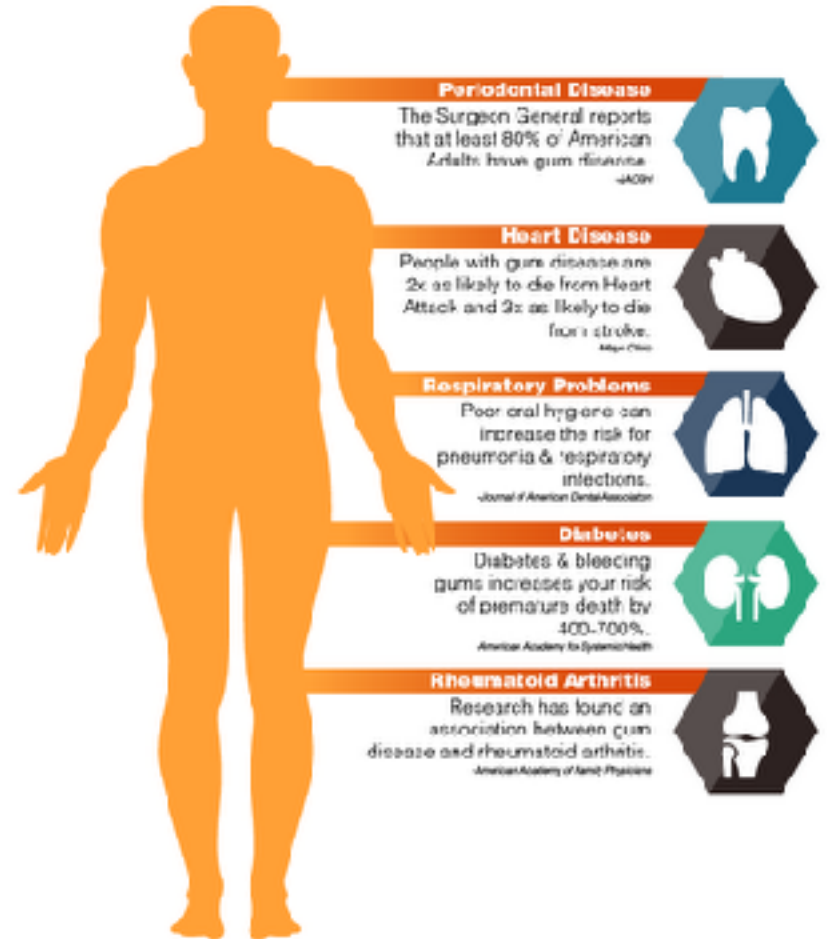


THE MOUTH AS A GATEWAY





MOUTH BODY Connection





Gum Disease: The Oral-Systemic Link

MEDICAL CONDITION	INCREASED RISK
Stroke	300%
Heart disease	72-168%
Fatal coronary heart disease	50%
Preterm birth	700%
Oral cancer	400%
Diabetes	Increased risk
Arthritis	Increased risk
Pneumonia aspiration	Increased risk



If you do not have a **healthy mouth**,
you cannot **effectively detoxify** the body.





1. GUM DISEASE

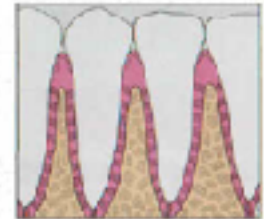




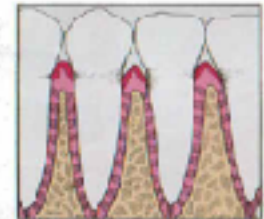
3 ALARMING STATISTICS IN ORAL HEALTH:

1. 85% of Adults Over 35 Have Some Form of Gum Disease.
2. The Link Between Gum Disease To Systemic Illness is Well Established.
3. Past Approaches (i.e., Antibiotics and Antimicrobials) Have Been Shown to Be Both Ineffectual and Harmful.

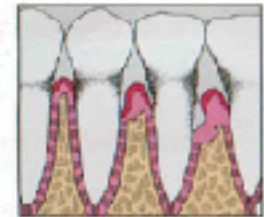
1. Normal, Healthy Gingiva (Gums)
Healthy gums and bone anchor teeth firmly in place.



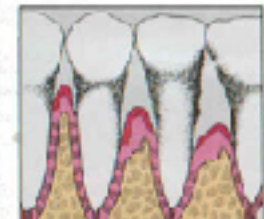
2. Gingivitis
Plaque and its byproducts irritate the gums, making them tender, inflamed, and likely to bleed.



3. Periodontitis
If removed, plaque hardens into calculus (tartar). As plaque and calculus continue to build up, the gums begin to recede (pull away) from the teeth, and pockets form between the tooth and gums.

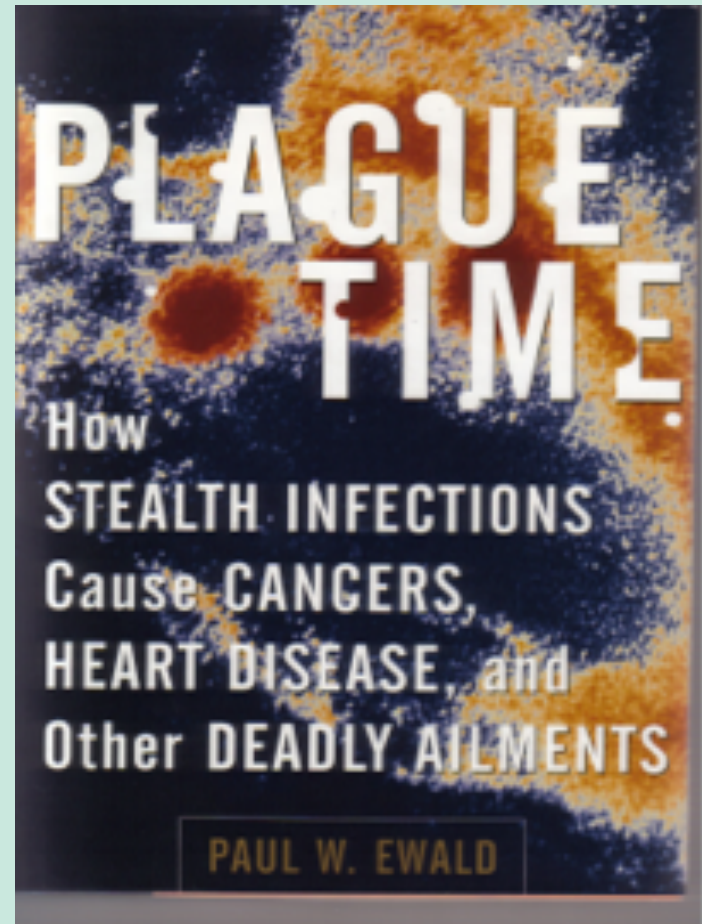


4. Advanced Periodontitis
The gums recede further, destroying more bone and the periodontal ligament. Teeth—even healthy teeth—may become loose and need to be extracted.



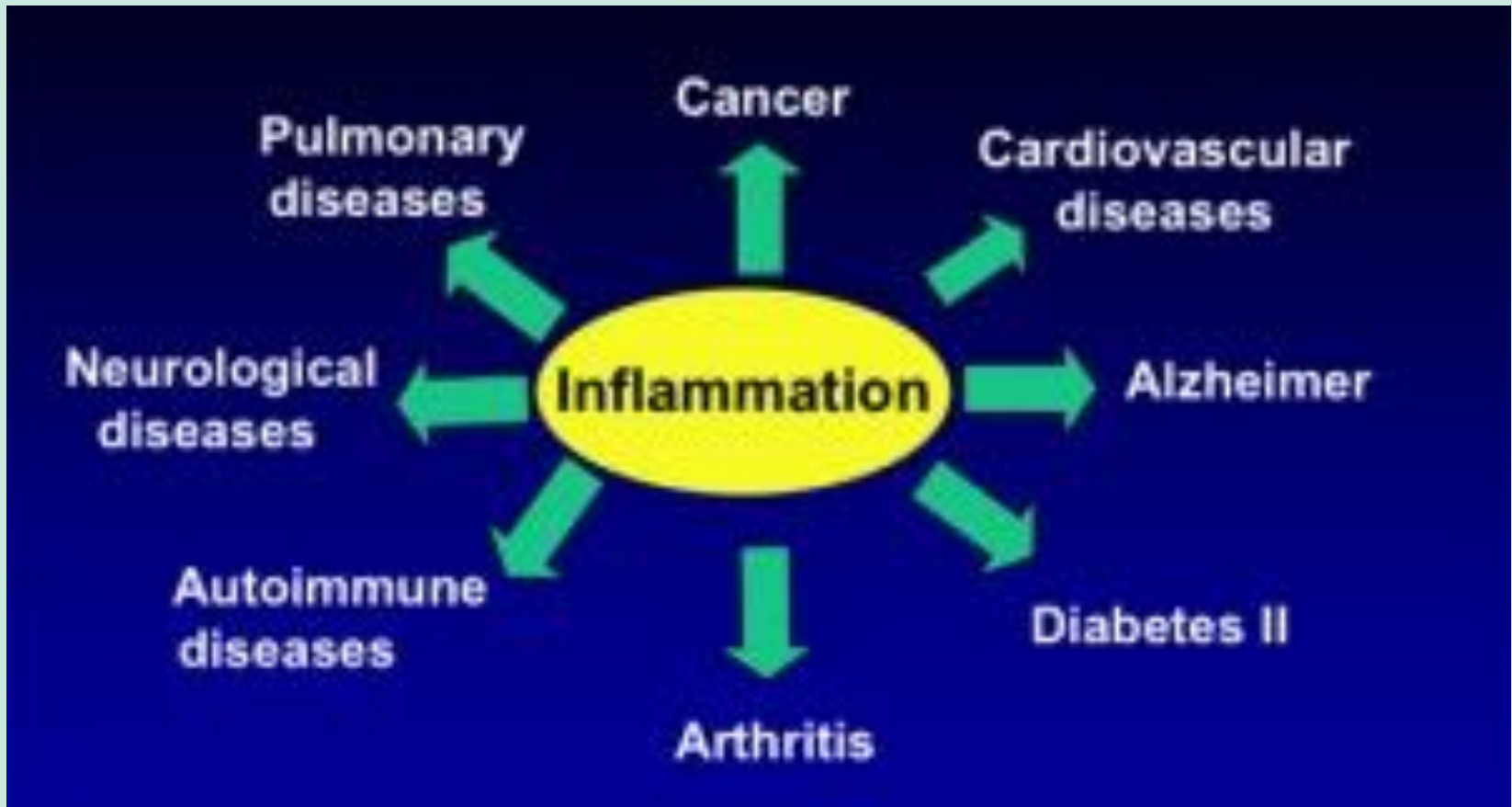


Gum Disease: a Major Source of Chronic Low-Grade Inflammation





Oral Disease: a Major Source of Chronic Low-Grade Inflammation





Inflammation, the powerful mediator for the association of periodontal disease to systemic disease

4 mechanisms and pathways:

1. **Direct effects of oral infectious pathogens**
2. **Inflammatory response to oral pathogens.**
3. **The inflammatory effects on vascular integrity.**
4. **The effects on gene polymorphisms to a more pro-inflammatory genotype. (IL-genes)**



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Journal of Oral Microbiology
Volume 5, 2017 - Issue 1

Enter keywords, author, DOI or

the journal



Original Article

Open access

Porphyromonas gingivalis is the most abundant species detected in coronary and femoral arteries

J. L. C. Mouton¹, C. B. Saverio², R. J. Davies³, M. T. Freeman⁴, T. B. Lockhart⁵ & F. K. R. Mouton⁶

Article 1281702 | Received 15 Aug 2016 | Accepted 27 Jan 2017 | Published online 08 Feb 2017

Download citation: <http://dx.doi.org/10.1080/20002257.2017.1281702>



Full Article

Figures & data

References

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In this article:

ABSTRACT

Methods

Results

Discussion

References

Abstract

An association between oral bacteria and atherosclerosis has been postulated. A limited number of studies have used 16S rRNA gene sequencing-based metagenomics approaches to identify bacteria at the species level from atherosclerotic plaques in arterial walls. The objective of this study was to establish detailed oral microbiome profiles, at both genus and species level, of clinically healthy coronary and femoral artery tissues from patients with atherosclerosis. Tissue specimens were taken from clinically non-atherosclerotic areas of coronary or femoral arteries used for attachment of bypass grafts in 42 patients with atherosclerotic cardiovascular disease. Bacterial DNA was sequenced using the MiSeq platform, and sequence reads were screened *in silico* for nearly 600 oral species

People also read

Article

Dental plaque microbial profiles of children from Khartoum, Sudan, with congenital heart defects >

Elba Mohamed Ali et al.



Research Article

Chronic Exposure to Oral Pathogens and Autoimmune Reactivity in Acute Coronary Atherothrombosis

Ivana Burazor¹ and Aristo Vojdani²

¹ *Cardiology Department, Institute for Rehabilitation, Sokobanjska 17, 11000 Belgrade, Serbia*

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Received 26 November 2013; Revised 18 January 2014; Accepted 20 January 2014; Published 25 February 2014

Academic Editor: K. Michael Pollard

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Background. It has been hypothesized that various infective agents may activate immune reactions as part of the atherosclerotic process. We aimed to investigate the interrelationship between chronic exposure to oral pathogens and immune inflammatory response in patients with acute coronary atherothrombosis. **Patients and Methods.** The study included 200 participants from Serbia;



Periodontal Disease and Preterm Labor

- **Maternal periodontal disease is associated with increased risk of preterm labor**
- **Anaerobic oral gram-negative bacteria cause inflammatory response**
- **Inflammatory response stimulates prostaglandin and cytokine production to stimulate labor**





So how does this happen?



Healthy Gums ➡ Gingivitis ➡ Periodontitis ➡ Advanced Periodontitis

The progression from health to disease



SO HOW DO WE GET FROM THIS.....

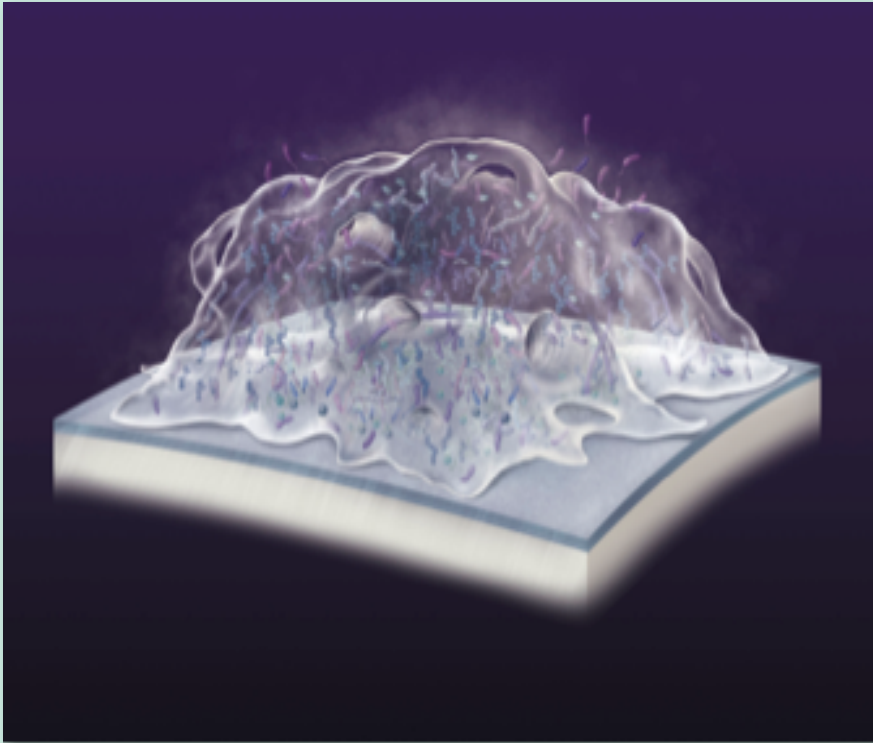




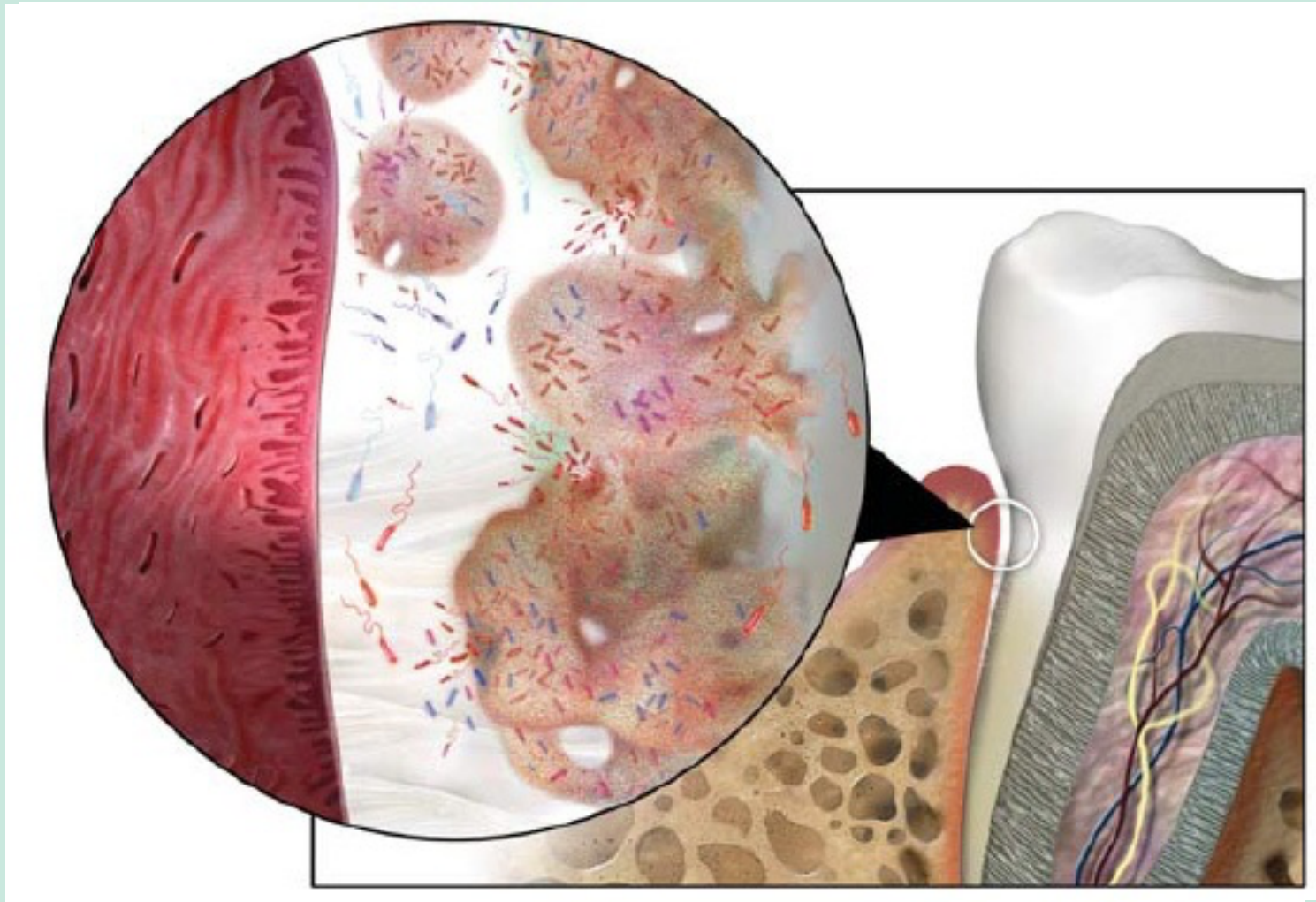
.....TO THIS? (HINT: IT'S ALL ABOUT THE ENVIRONMENT)



THE ORAL MICROBIOME



The oral microbiome is made up of water, salivary proteins, crevicular fluid, immune complexes, minerals, and vast numbers of microorganisms, approximately 700 species and anywhere from 6 to 10 billion in number.





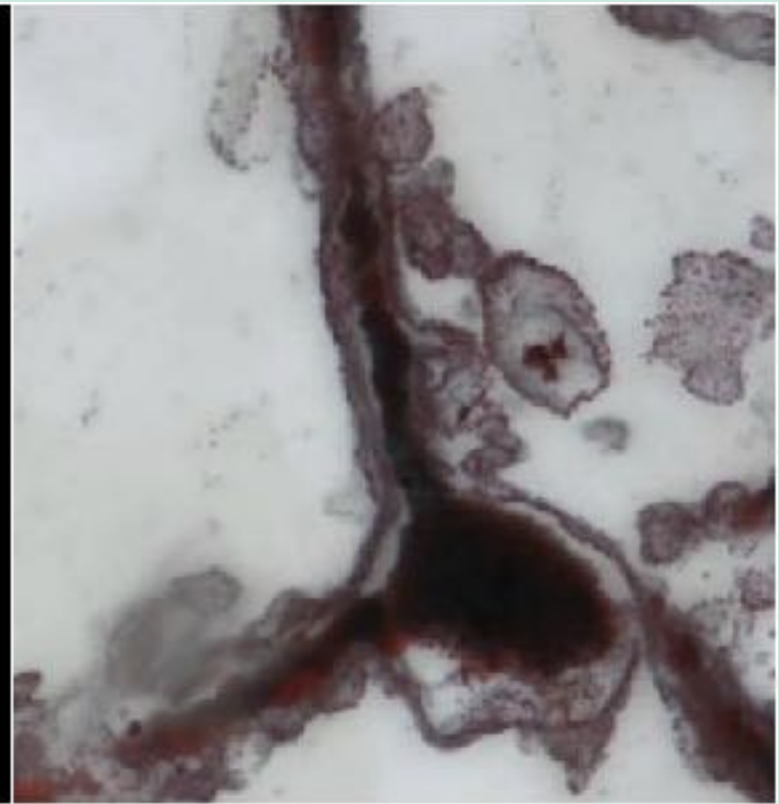
Man is made of microbes





Slimy Microbes Carpeted Earth 3.2 Billion Years Ago

By Charles Q. Choi, Live Science Contributor | February 18, 2015

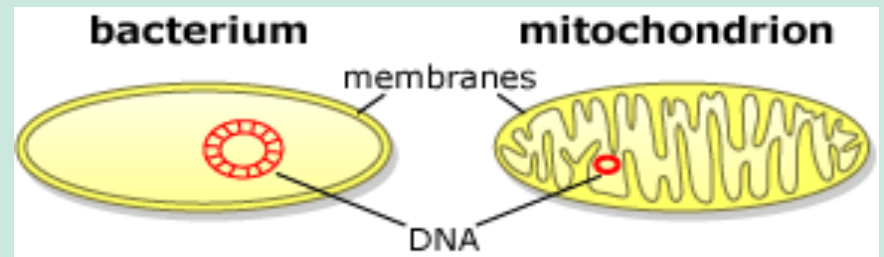




Genesis 2:7
And the Lord God formed man
of the slime of the earth: and
breathed into his face, the
breath of life, his spirit, and
man became a living soul.

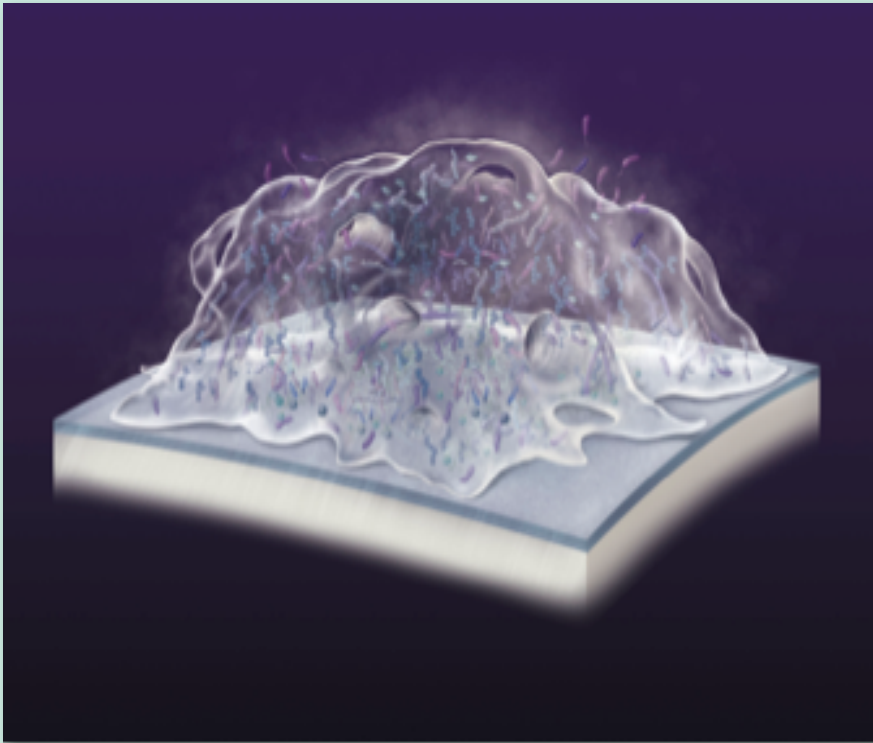


Man is made of microbes.





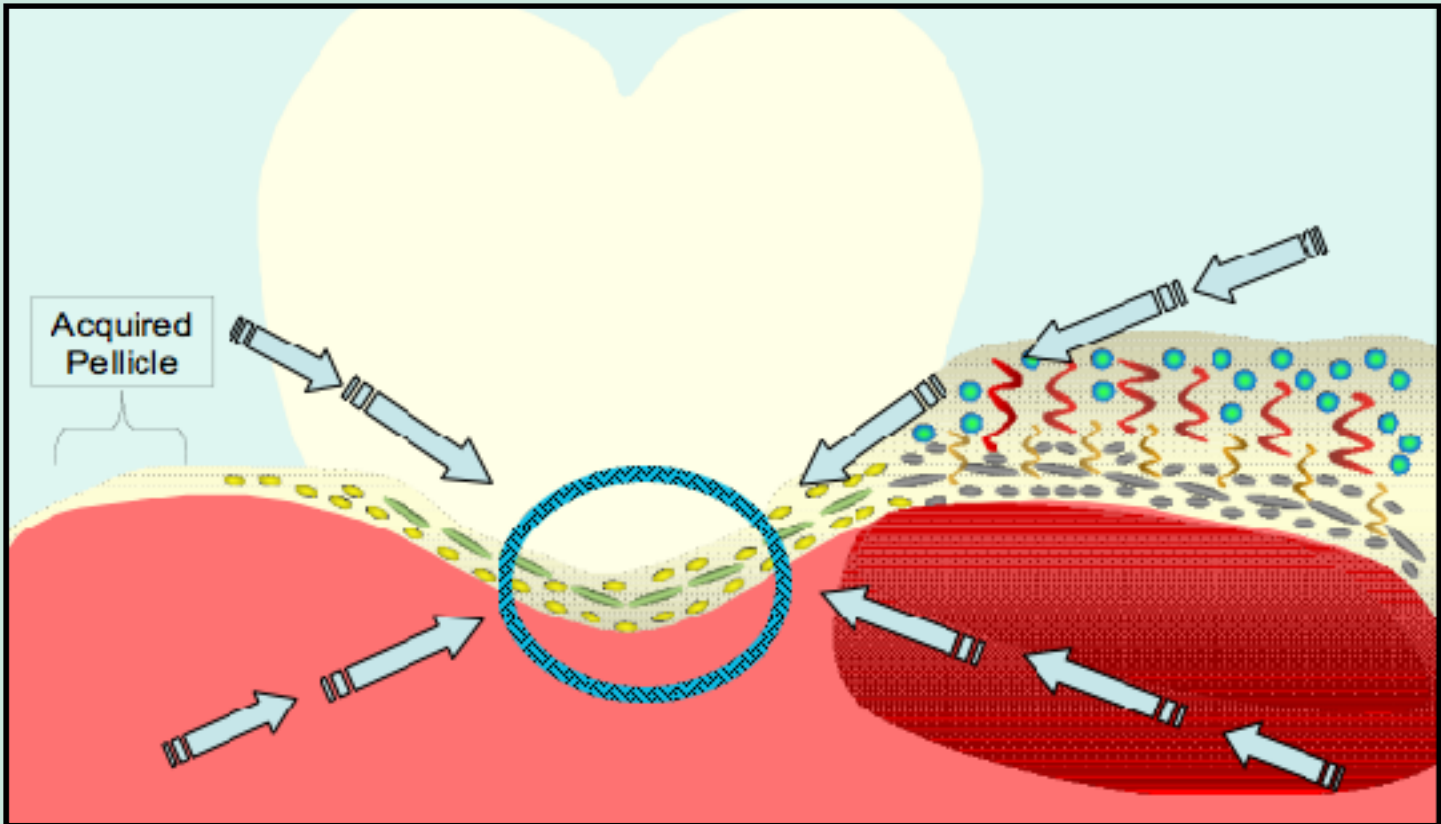
THE ORAL MICROBIOME



- Essential for life.
- Essential for protection against harmful environmental pathogens.
- Essential component of mammalian digestion pathways.
- Essential component of salivary immune system regulation.

THE ORAL MICROBIOME

Homeostasis (balance) is the center of health.





THE ORAL MICROBIOME

Homeostasis (balance) is the center of health.

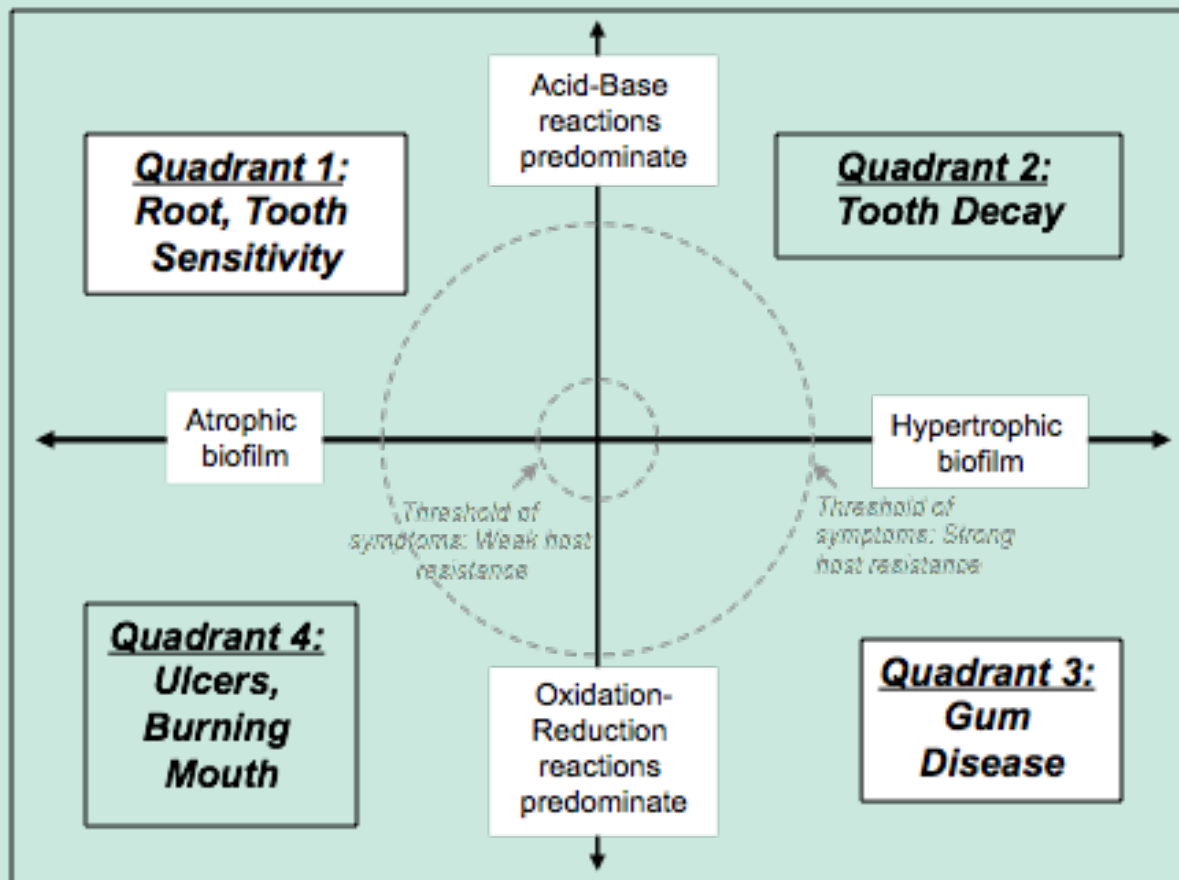
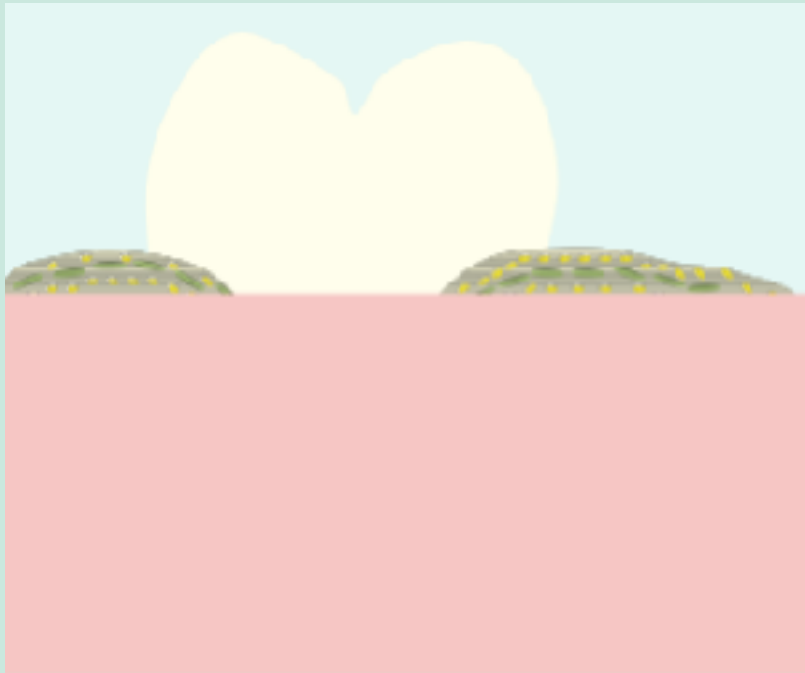


Figure 1



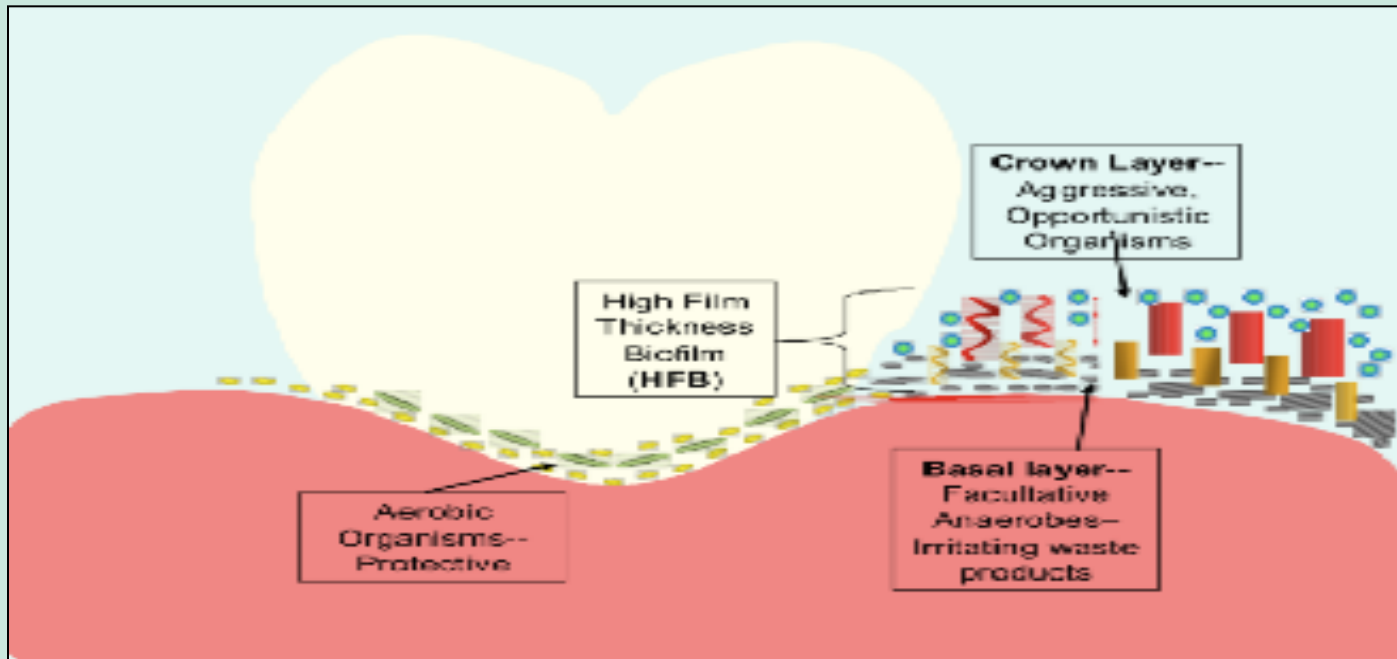
THE ORAL MICROBIOME



Emerging human microbiome science has identified our oral ecosystem, the oral microbiome (or oral biofilm), as an **intelligent semi-permeable membrane**.



THE ORAL MICROBIOME



- If the oral microbiome becomes **unbalanced**— the early colonizers get matted down and **convert from aerobes to facultative anaerobes**. These form the 'soil' in which true anaerobes take root such as Fusobacterium and Spirochetes.
- The **opportunistic organisms pile up and destroy the architecture of the basal layer** and an entirely different metabolism begins.



THE ORAL MICROBIOME



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Current Opinion in
Microbiology

Fusobacterium nucleatum: a commensal-turned pathogen

Yiping W Han^{1,2,3}

Fusobacterium nucleatum is an anaerobic oral commensal and a periodontal pathogen associated with a wide spectrum of human diseases. This article reviews its implication in adverse pregnancy outcomes (chorioamnionitis, preterm birth, stillbirth, neonatal sepsis, preeclampsia), GI disorders (colorectal cancer, inflammatory bowel disease, appendicitis), cardiovascular disease, rheumatoid arthritis, respiratory tract infections, Lemierre's syndrome and Alzheimer's disease. The virulence mechanisms involved in the diseases are discussed, with emphasis on its colonization, systemic dissemination, and induction of host inflammatory and tumorigenic responses. The FadA adhesin/invasin conserved in *F. nucleatum* is a key virulence factor and a potential diagnostic marker for *F. nucleatum*-associated diseases.

Addresses

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³ Herbert Irving Comprehensive Cancer Center, Columbia University Medical Center, United States

animalis, *ss fusiforme*, *ss nucleatum*, *ss polymorphum*, and *ss vincentii*, whose prevalence in disease vary [3⁺⁺,4–6]. This article reviews the infections implicating *F. nucleatum*, along with the virulence mechanisms involved.

Diseases implicating *F. nucleatum*

Summarized in Table 1 are diseases in which *F. nucleatum* has been implicated.

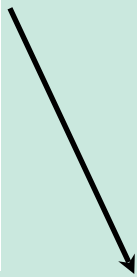
Oral infections

F. nucleatum is one of the most abundant species in the oral cavity, in both diseased and healthy individuals [7–10]. It is implicated in various forms of periodontal diseases including the mild reversible form of gingivitis and the advanced irreversible forms of periodontitis including chronic periodontitis, localized aggressive periodontitis and generalized aggressive periodontitis [8–15] (Table 1). It is also frequently associated with endodontic infections such as pulp necrosis and periapical periodontitis [16–22] (Table 1). The prevalence of *F. nucleatum* increases



THE ORAL MICROBIOME

A Change in Assumptions





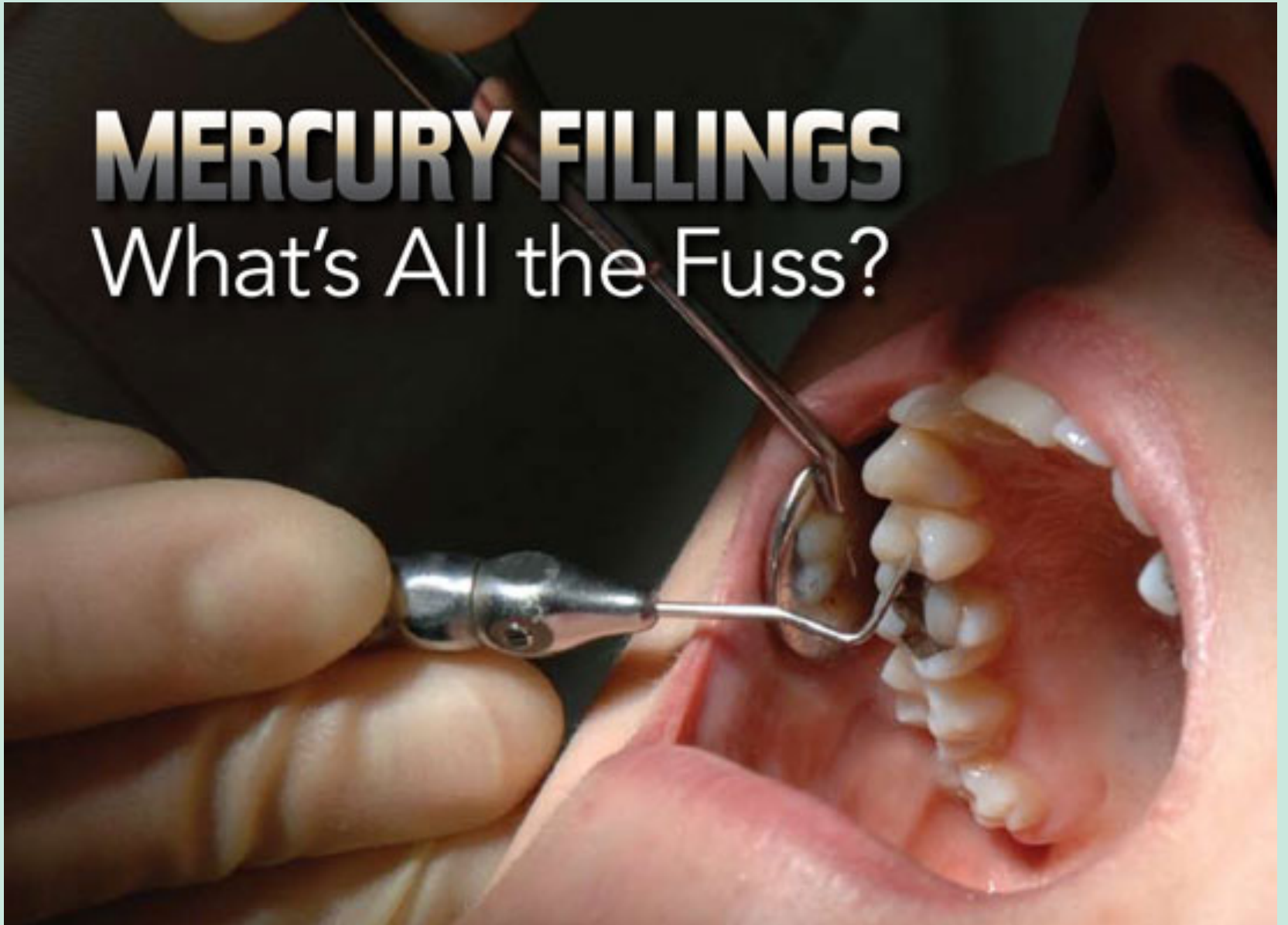
2. DENTAL MERCURY



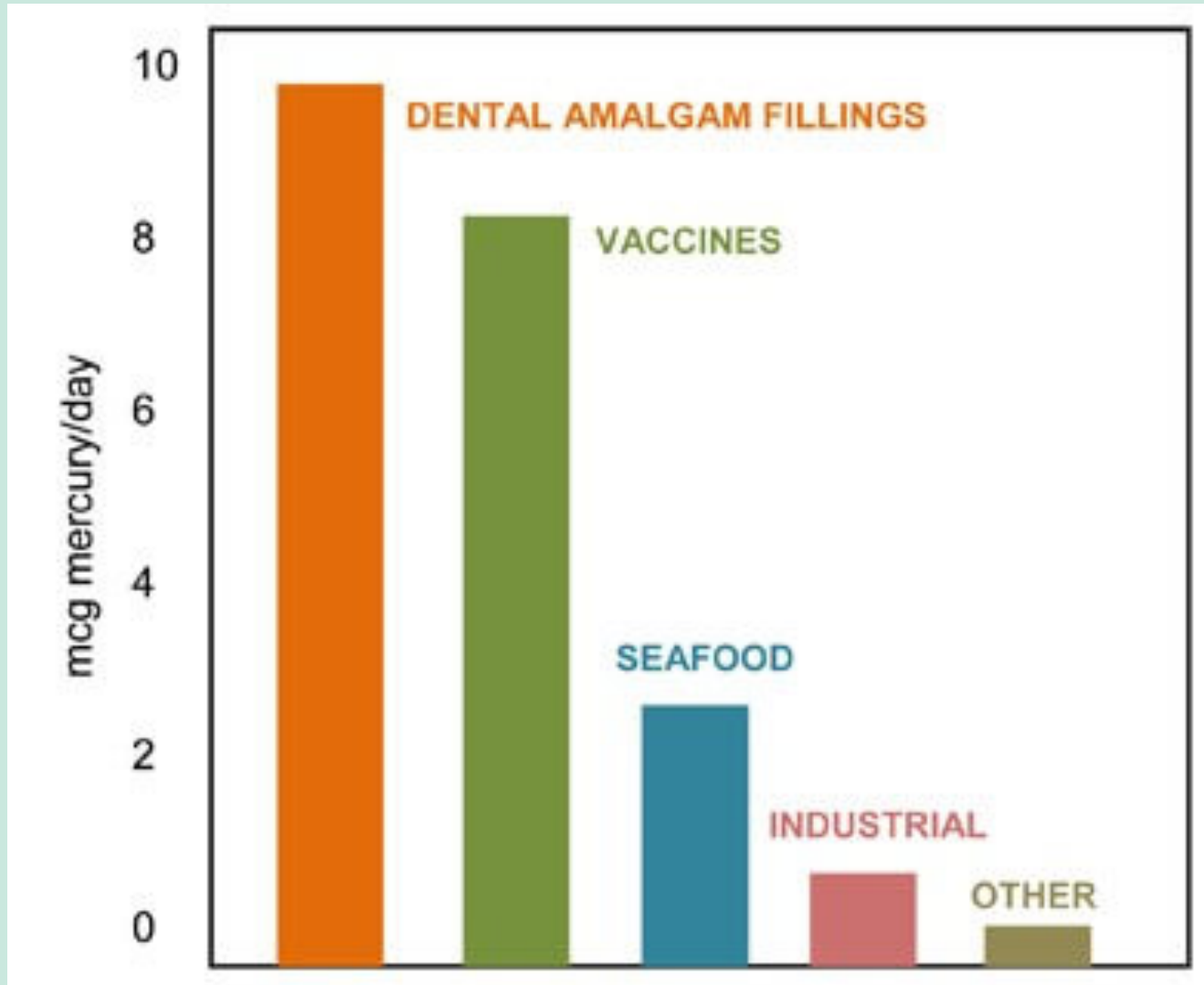


MERCURY FILLINGS

What's All the Fuss?









Toxic Teeth: Are Mercury Fillings Making You Sick? Pt 1

TOXIC TEETH

00:00 05:43



FDA caught hiding dangers of Dental Mercury since 2011

ANN BOULDER

FDA KNEW BUT HID FACTS **BREAKING NEWS**

MERCURY DENTAL FILLINGS | CYBERLINK

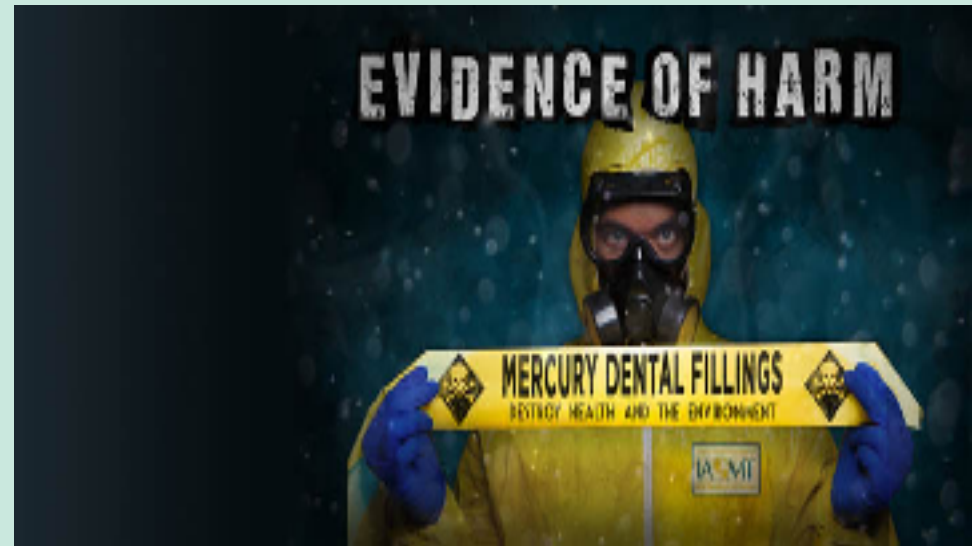
NEW MERCURY DENTAL FILLINGS WERE BAD SINCE 2011 BUT HID FACTS



Mercury Fillings Can Cause Toxic Gas



https://www.facebook.com/evidenceofharm/videos/1632498930367113/?video_source=pages_finch_trailer





MERCURY POISONING & ALZHEIMER'S DISEASE

IT ISN'T A COINCIDENCE

SYMPTOMS OF MERCURY POISONING

IRRITABILITY
ANXIETY
DEPRESSION
MEMORY LOSS
AGITATION
PHYSICAL OR VERBAL OUTBURTS
EMOTIONAL DISTRESS
RESTLESSNESS
SLEEP DISTURBANCES
DELUSIONS

SYMPTOMS OF ALZHEIMER'S DISEASE

IRRITABILITY
ANXIETY
DEPRESSION
MEMORY LOSS
AGITATION
PHYSICAL OR VERBAL OUTBURTS
EMOTIONAL DISTRESS
RESTLESSNESS
SLEEP DISTURBANCES
DELUSIONS







Supplement Power

Hydrolyzed Clinoptilolite Fragments To Eliminate Cellular Toxins



Cytodetox™ supports the body to naturally capture and eliminate cellular toxins throughout the body.

Hydrolyzed Clinoptilolite Fragments go beyond the colon and intestines to sweep away dangerous toxins.

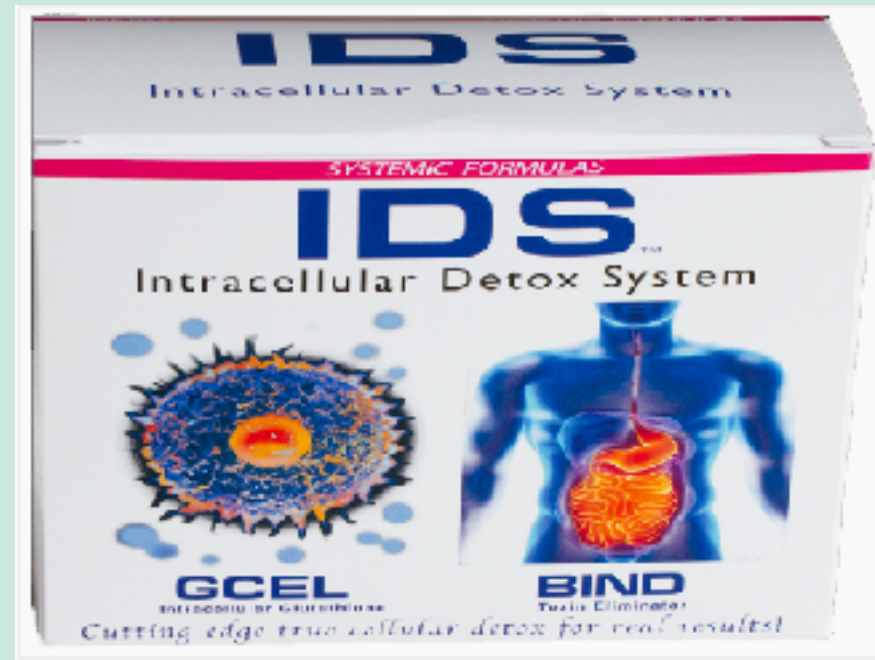


Supplement Power

GCEL and BIND: a glutathione “supersystem” for your body’s main detoxification.

GCELL (Intracellular Glutathione) a powerful glutathione booster to raise intracellular GSH, GCEL to naturally eliminate toxins from cells.

BIND (Toxin Eliminator) provides a specialized form of super activated carbon and powerful humates along with key botanicals that effectively bind organic and inorganic toxins, myotoxins, chemicals, heavy metals and prevents re-toxification. Also helps remove bio-toxins from the GI tract.





3. ROOT CANALS

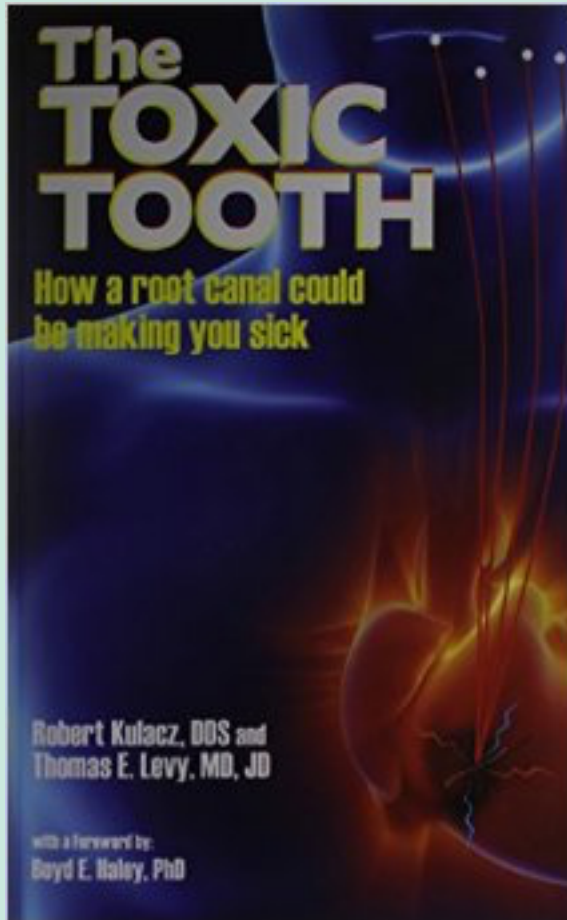


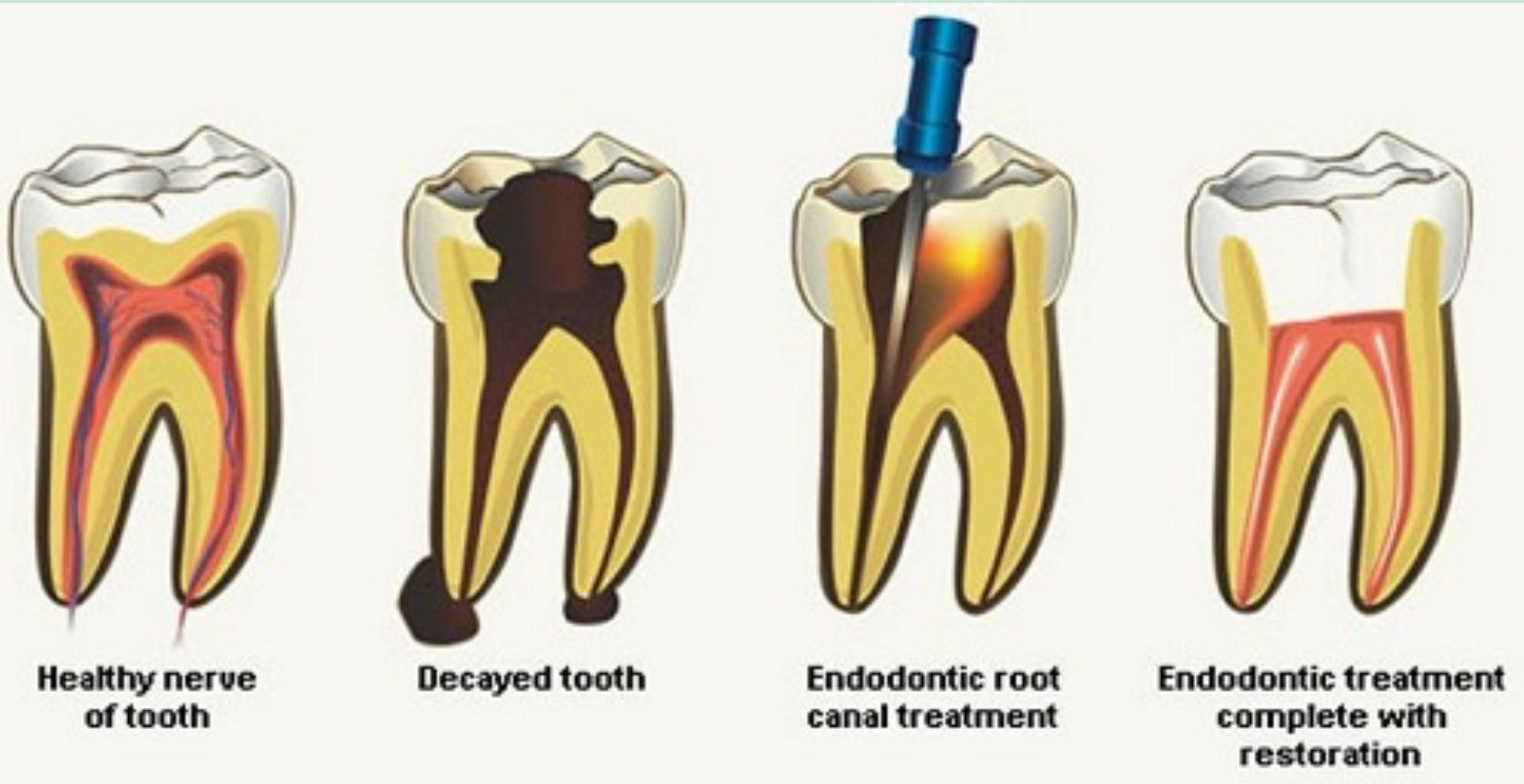


How a Root Canal
Could Be Making You

SICK











*Fig 1.
Healthy pulp
within tooth
(root canals)*

*Fig 2.
Cavity caused
pulpal
inflammation/
infection (abscess)*

*Fig 3.
Root canal
treatment removes
unhealthy pulp,
heals abscess*

*Fig 4.
Cleaned root
canal filled with
gutta percha*





THE DANGERS OF ROOT CANALS

During a root canal, the inside of the tooth is cleaned and sealed. Sealing this main canal does not account for the thousands of side canals that branch off each tooth.

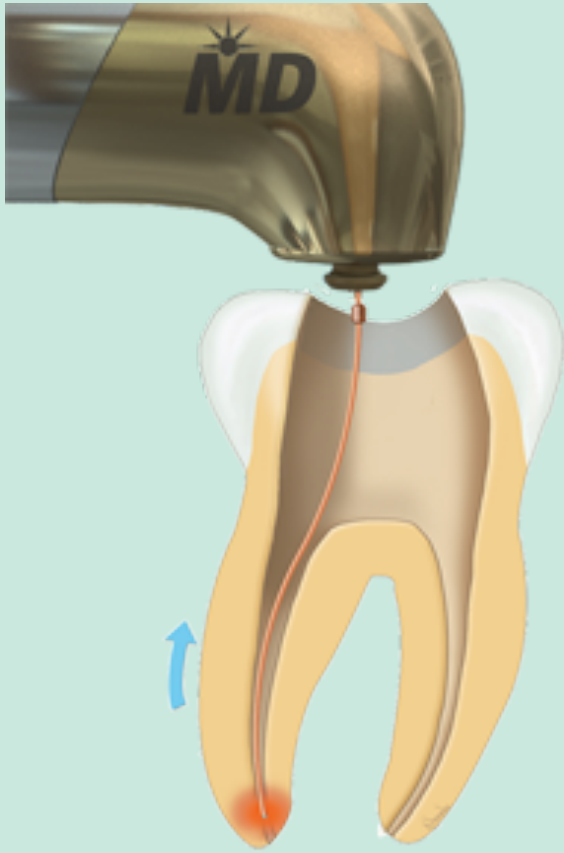
These microscopic channels are left untouched and made up of dead rotting nerves. Bacteria feed off this dead tissue and the toxic waste created leaks into your bloodstream. Unknowingly, you've simply installed a condominium for bacteria.

The Dangers of Root Canals


- Arthritis
- Heart disease
- Neurodegenerative disease
- Digestion disorders
- Mental disorders
- Cancer



Advantage of Dental Laser Disinfection in performing Root Canal Treatment



Diode Lasers in Endodontology

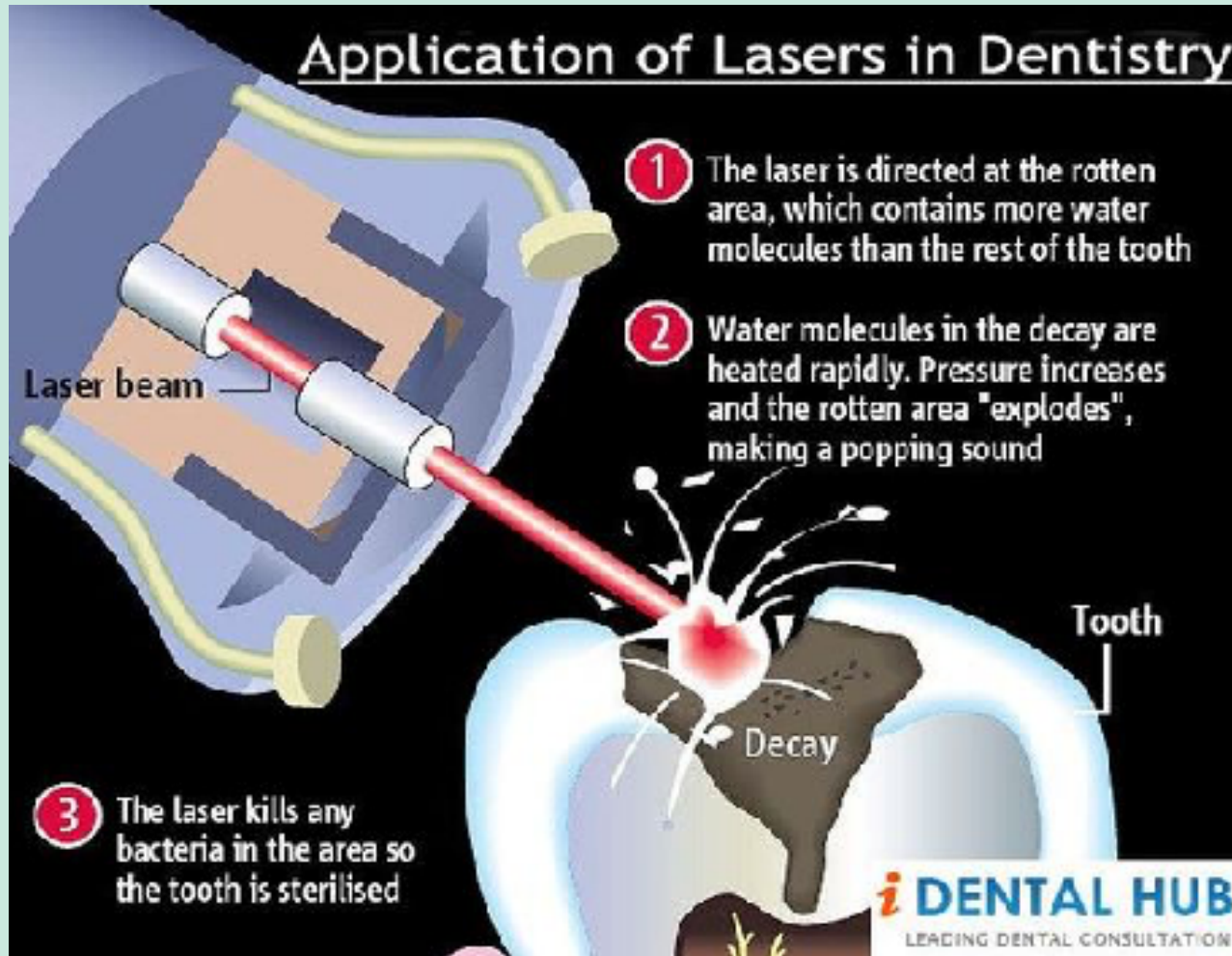


- Bacterial reduction after root canal treatment
- The penetration depth into the dentine tubuli of a conventional rinsing is only $\approx 100 \mu\text{m}$
- The penetration depth into the dentine tubuli of laser light is $\approx 1000 \mu\text{m}$

The diagram shows a cross-section of a tooth with a laser beam entering the root canal. A red star at the tip of the beam indicates the point of laser activation. The laser beam is shown reaching a depth of approximately 1000 micrometers into the dentine tubuli.



BIOLASE WATERLASE 2.0: HEALING ROOT CANALS, EXTRACTION SITES AND CAVITATIONS.





4. FLUORIDE





The Dangers of Fluoride



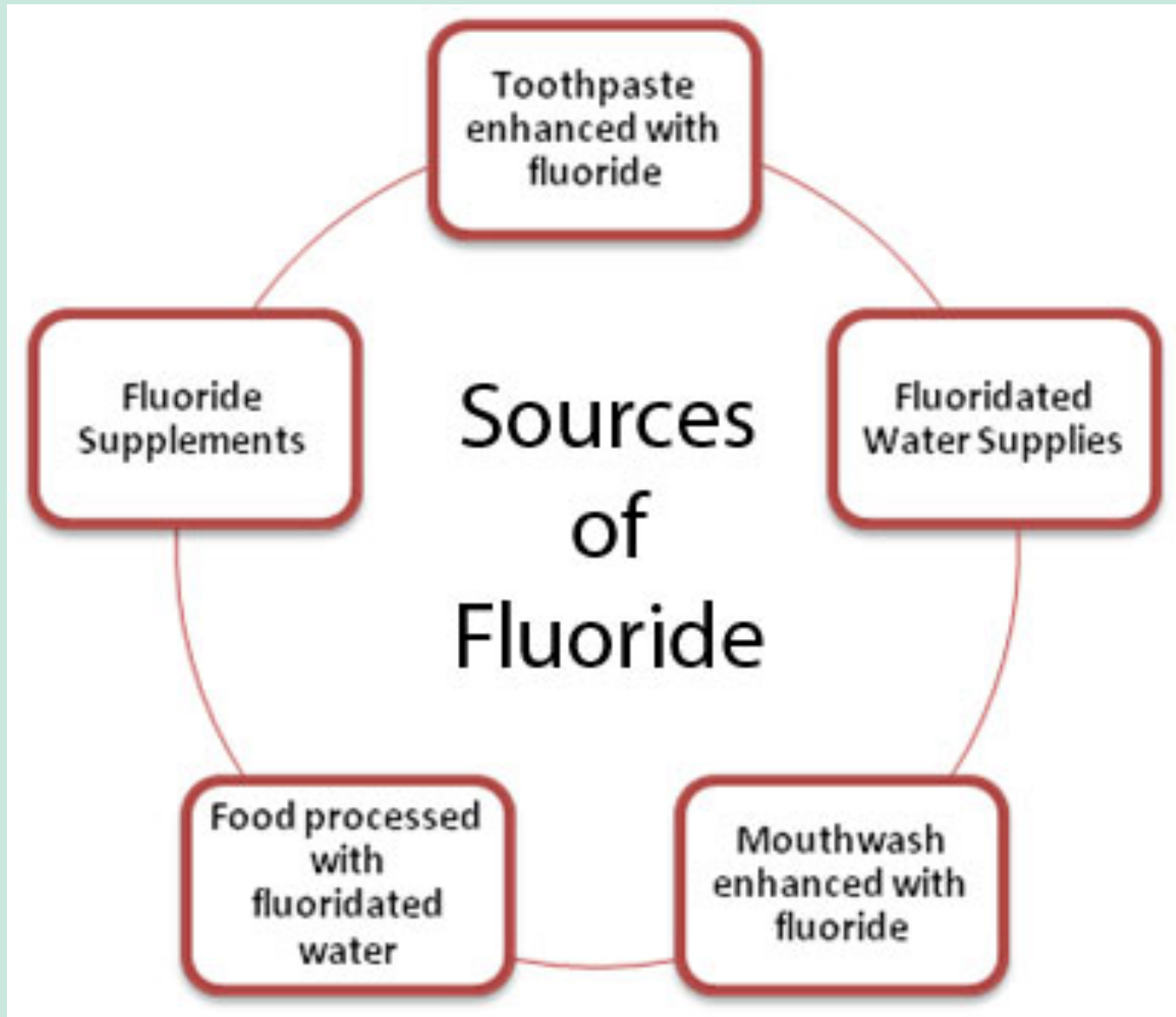
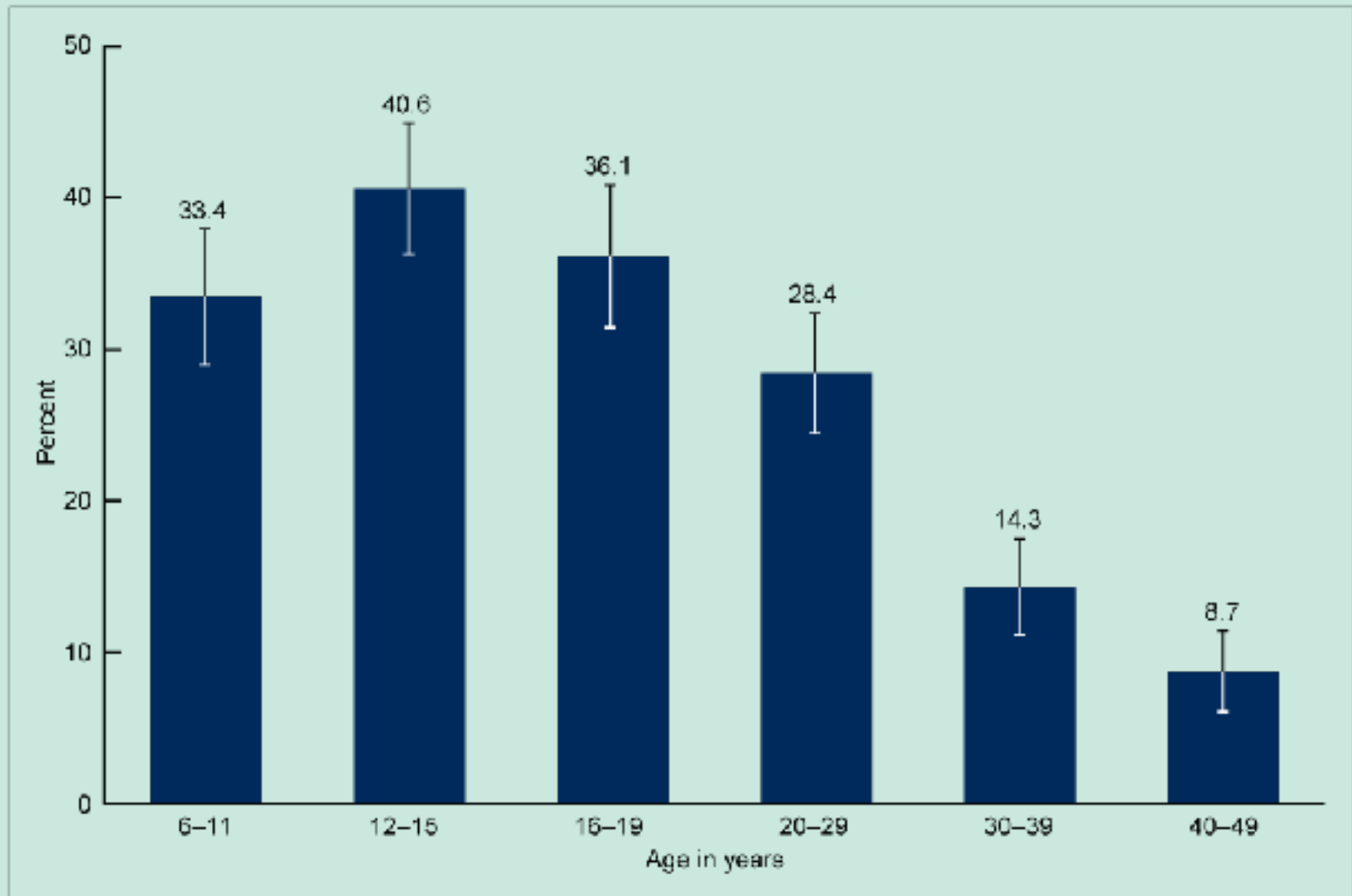




Figure 2. Prevalence of dental fluorosis among persons aged 6–49, by age group: United States, 1999–2004



NOTES: Dental fluorosis is defined as having very mild, mild, moderate, or severe forms and is based on Dean's Fluorosis Index. Error bars represent 95% confidence intervals.

SOURCE: CDC/NCHS, National Health and Nutrition Examination Survey, 1999–2004.



Dental Fluorosis

MILD FLUOROSIS



SEVERE FLUOROSIS





THE TRUTH ABOUT FLUORIDE

We are being overdosed on fluoride.

This “beneficial” drug has been linked to...

- Lower IQ in children
- Learning disabilities
- Behavioral disorders
- Rapid aging
- Decrease in bone density and strength
- Metabolic dysfunction
- Autoimmune disease
- Cognitive decline
- Increased risk of cancer...





REJUVENATION DENTISTRY

A young girl with a ponytail, wearing a blue long-sleeved shirt, is shown in profile, drinking from a clear glass. She is standing in a kitchen, with a sink and a dish rack containing white dishes visible in the background. The lighting is warm and focused on the girl.

NEW FILM: OUR DAILY DOSE

From the award-winning director of "GMO OMG"

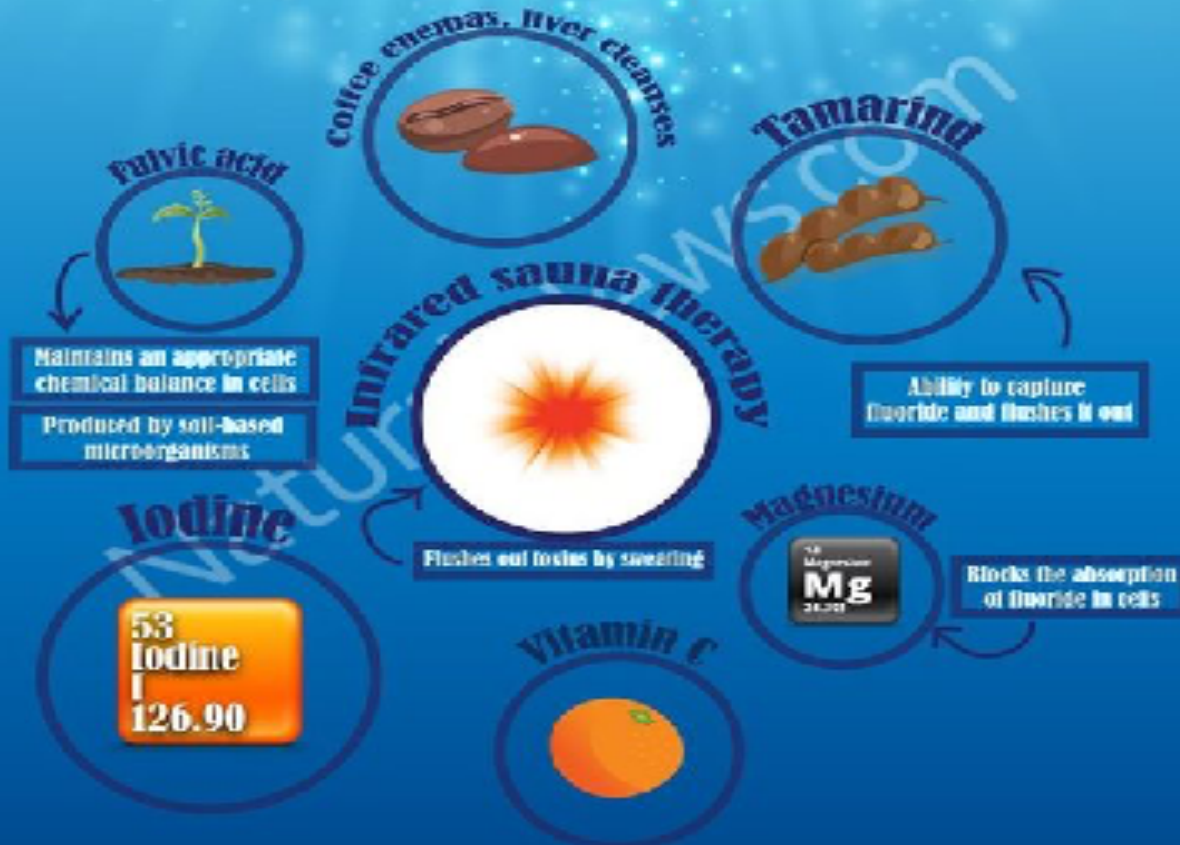


FLUORIDATION & THE LEAD CRISIS

Like most other urban areas in the United States, Flint adds a **corrosive fluoride chemical** to its water in the name of preventing tooth decay (aka “**water fluoridation**”). This fluoride chemical is not only a **neurotoxin**, its **repeatedly** been found to **leach lead** from water pipes and **increase the levels of lead in children’s blood**.



7 ways to naturally protect yourself against fluoride toxicity





5. TOOTHPASTE





Why is there a “poison warning” on
toothpaste?
(hint: because it’s poison)



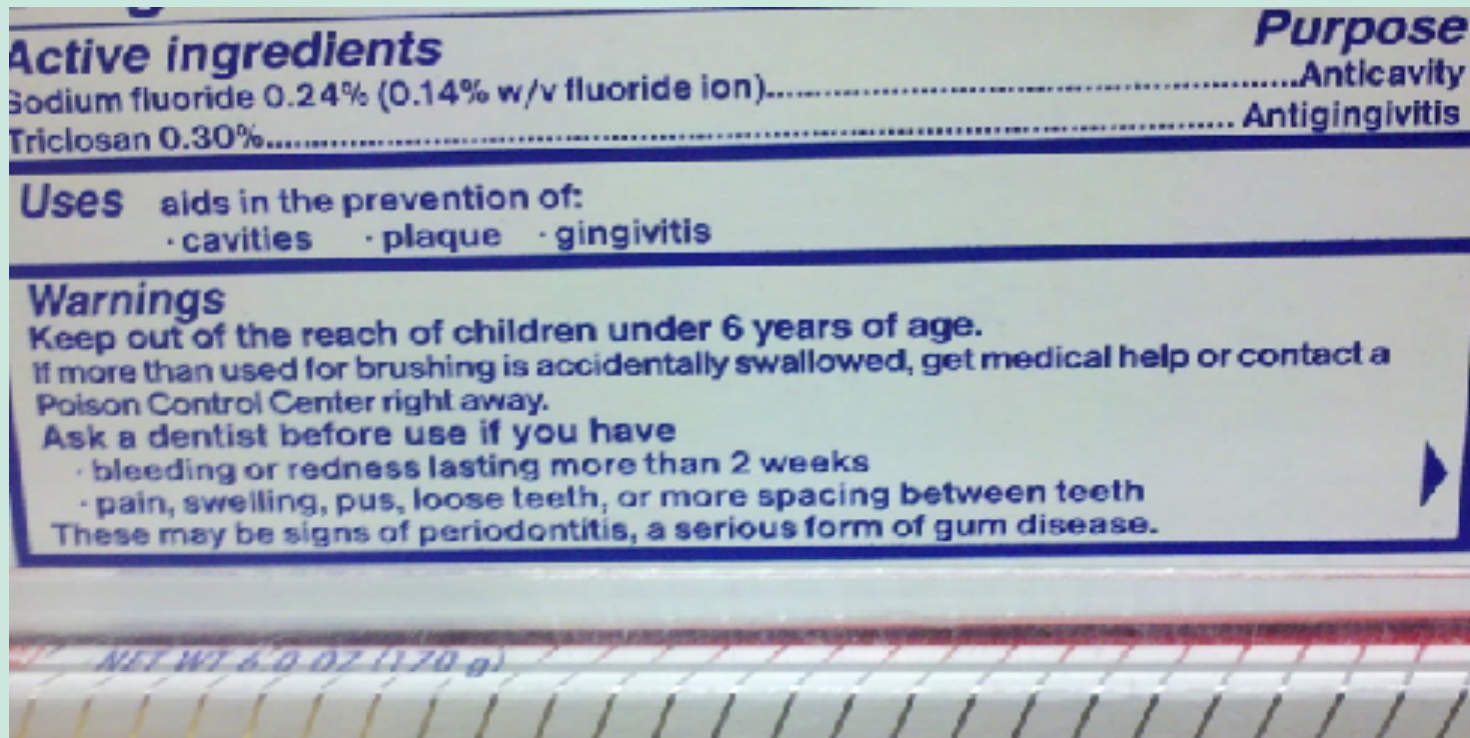
Did You Know?

Given the average weight of a six-year-old, a dose of 100mg, or 70 percent of a tube of toothpaste, at one sitting could be deadly.

Fluoride is a deadly poison and has no place in our water or our toothpaste. Use a non-fluoridated toothpaste. If you still think fluoride is good for teeth see this link - <http://goo.gl/Q5p9U>



Why is there a “poison warning” on
toothpaste?
(hint: because it’s poison)







Chemical used by Colgate Total toothpaste to fight off gum disease is linked to cancer

- Colgate Total contains triclosan, which has been linked to cancer and growth malformations in animals.
- The toothpaste was approved by the FDA in 1997 - but the toxicology summary reveals the FDA used company-backed evidence to approve it.







Truth in advertising?

Current approaches in Oral Care are not only ineffectual but harmful.





Why You Should Never Use Products Containing Triclosan



1. **Triclosan Has an Almost Indefinite Afterlife in Human Tissue:** Swedish studies found Triclosan in 60% of women's breast milk, even years after mothers had stopped using antibacterial products due to toxicity concerns. The body stores Triclosan in fat cells. (Toxicity is a common cause of inability to lose weight as the body refuses to lose its protective layer of fat in order to avoid flooding the body with toxins).
2. **Triclosan is a Known Endocrine Disruptor:** Multiple scientific studies have proven that Triclosan negatively affects thyroid function in frogs, specifically the metabolism of the thyroid hormones.
3. **Triclosan Is Associated With Antibiotic Resistance:** Other studies have proven that continual use of Triclosan (an antibacterial product) creates antibiotic resistance bacteria. Other studies proved that people who use products containing Triclosan on a daily basis have a higher incidence of resistance to antibiotics than people who do not.



Why You Should Never Use Products Containing Triclosan



4. **Triclosan forms carcinogens when exposed to chlorine in tap water:** When Triclosan is exposed to tap water, such as when you brush your teeth with triclosan toothpaste, it releases chloroform gas, a known carcinogen. Studies also showed the effect is stronger with hot water.
5. **Triclosan is strongly linked to human disorders:** Although further research is needed to confirm the full effects of Triclosan on the endocrine system, existing research proved Triclosan is dangerous to humans and linked its use to increased rates of asthma, allergies and eczema.
6. **Triclosan was recently linked to cardiac and skeletal muscular weakness and disorders:** Recent studies found that Triclosan impairs muscular contractions in human cardiac and skeletal muscle cells. Heart muscle strength was reduced by 25% and grip strength by 15% in studies on mice. These effects are already seen in the environment in the form of slower swimming fish and other abnormalities.



6. SUGAR ALCOHOLS





The most harmful ingredients in “NATURAL” toothpaste:

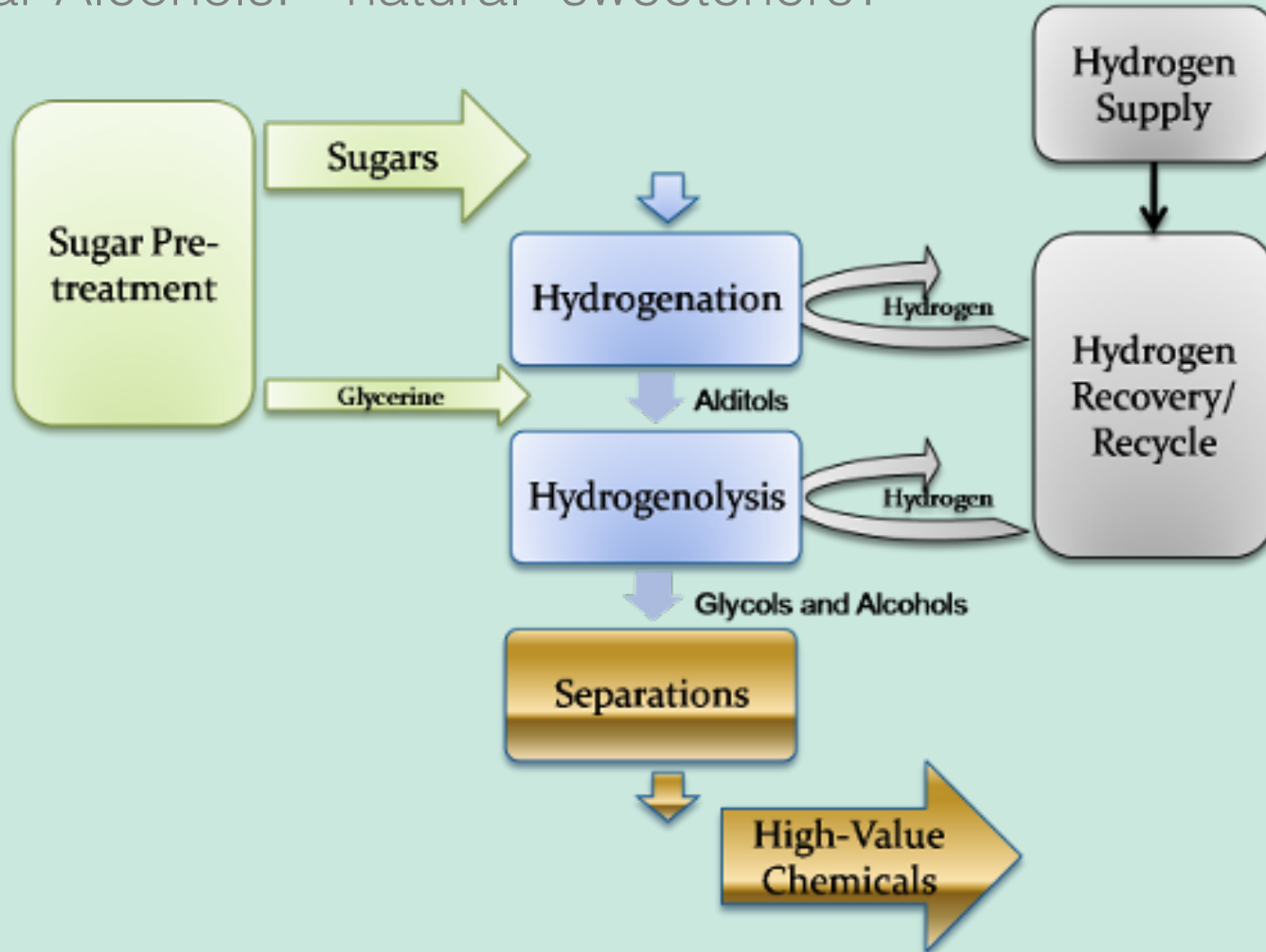
Are the **sugar alcohols** the new “margarines”
of the sugar substitute industry?

XYLITOL: The “darling of sugar substitutes,” commercial xylitol is a **sugar alcohol produced by the industrialized process of sugar hydrogenation with the use of a heavy metal catalyst.** In the case of xylitol, Raney nickel, a powdered nickel-aluminum alloy, is often used.





Sugar Alcohols: “natural” sweeteners?





THE WALL STREET JOURNAL

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FDA Warns Sweetener Xylitol Can Kill or Poison Dogs

Warning comes after surge in canine deaths and severe illnesses from ingredient



A type of sugar alcohol, xylitol is an ingredient in many foods, including gum, mints and other products that could kill or severely poison dogs.

By **MARK AREMONT**

May 12, 2016 4:38 p.m. ET

The U.S. Food and Drug Administration issued a strongest warning that a common sweetener in chewing gum, mints and other products could kill or severely poison dogs.

The warning comes on the heels of a surge in deaths and severe illnesses from dogs accidentally ingesting the sweetener, xylitol, according to pet poison-control centers. The first canine pet xylitol poisonings was reported last November in *The Wall Street Journal*.

The FDA warning, titled “XYLITOL AND YOUR DOG: DANGER, FANS OUT!” was issued Thursday by the agency as a “consumer update.” A prior FDA warning, issued in 2011 by the agency’s Center for Veterinary Medicine, briefly warned of potential illness in dogs and ferrets from eating xylitol.

A type of sugar alcohol, xylitol was an ingredient in many foods but “can have devastating effects on your pet,” the FDA said in the latest alert.

Dogs often eat foods and other items that their owners don’t intend. Ingesting, as in a few pieces of gum, can poison even a large dog, experts say, with effects including loss of and sugar seizures, coma, liver damage and possibly death.

The FDA also called attention to the inclusion of xylitol in some nut butters. Owners often give peanut butter to their pets as a treat, to get them to take medication.

“We love that [the FDA warning] contains better, more direct language,” said Dr. James Nicholas, a Portland, Ore., veterinarian who runs a website, *PreventiveVet.com*, which has called for more action on xylitol poisonings.

Dr. Nicholas said he hopes the FDA will require that food packaging include the weight or amount of xylitol per serving, and a clear symbol or text warning of the danger xylitol



natural toothpaste is safe right?

(read the label ingredients and learn)

Tea Tree Oil: volatile oil with powerful antimicrobial not suitable for Eyes, Mouth, Nose, Pets, Allergies, destroys bacteria, denatures oral microbiome.

Licorice root: powerful antimicrobial properties. Two natural isoflavone compounds derived from licorice root, glabridin and glabrene, demonstrate estrogen-like activities.

Tulsi Oil: volatile oil with antimicrobial properties.

Xylitol: antimicrobial (bacteria inhibitor).



The World's First **Prebiotic** Oral Care Formulation.





The World's First **Prebiotic** Oral Care Formulation.

A biologically effective, **prebiotic** formulation promoting **homeostasis** (balance) of the naturally occurring oral microbiome.

Combines essential antioxidants and cell energy enhancers CoQ-10, Vitamin C, Vitamin E, MSM, as well as a unique blend of microminerals, in a natural and organic base flavored with organic stevia.





Clinical Results:

Analysis of Capacity of Novel, Antioxidant Toothpaste to Reduce Gingival Inflammation in Pilot, Small-population Clinical Study: Comparison to Levels of Gingival Inflammation Reduction Reported in Historical Control and Therapeutic Toothbrushing Studies.

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Steven R. Jefferies M.S., D.D.S.¹

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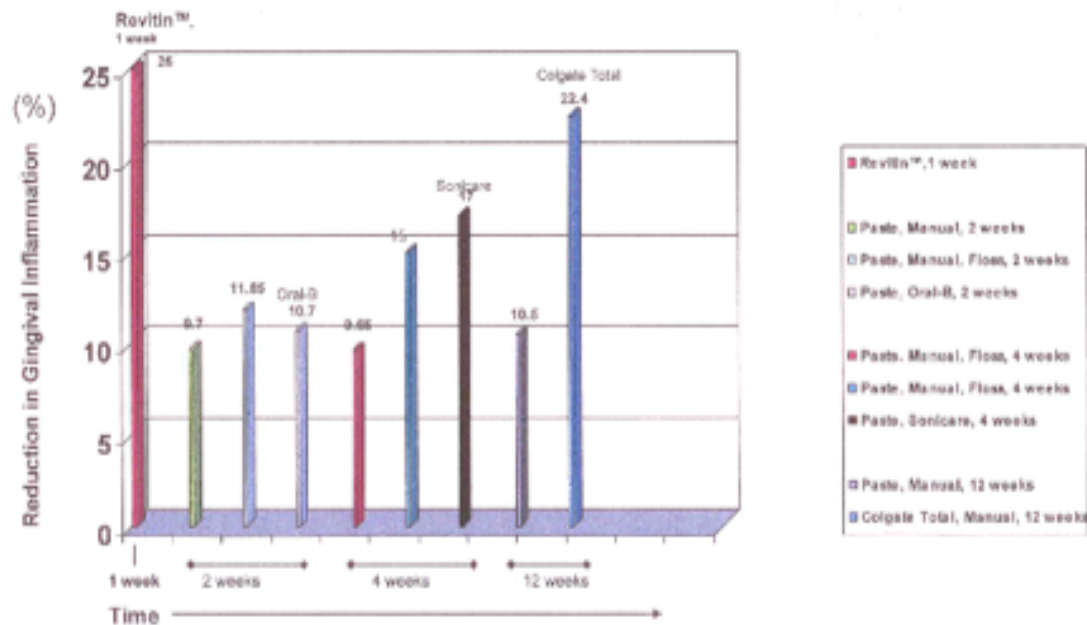
Background

Despite decades of effort, gingivo-perio dysfunction remains a significant threat to oral health, lifetime tooth retention and systemic health including effects on vascular endothelium and complications of pregnancy^{1,2,3,4,5}. Treatment of this spectrum of disorders typically involves oral hygiene measures designed to reduce plaque retention, antimicrobial therapy to suppress bacteria, scaling and root planing where indicated to remove mineralized bacterial colonies, and surgical approaches to debride inaccessible areas. At the basis for these therapies is an underlying assumption that plaque is fundamentally pathogenic and must be stripped away and disinfected as part of any long term strategy of managing this disease.



Clinical Results:

Fig.1: Reduction in Gingival Inflammation vs. Various Oral Hygiene Therapeutic Modalities





Clinical Results:

An Evaluation of the Effectiveness of an Experimental Oral Therapy Paste (Revitin™ with NuPath® Bioactives) on Oral Soft Tissue Health

C. H. Pameijer⁽¹⁾, N. Grande⁽²⁾, G. Plotino⁽²⁾, A. Butt⁽²⁾, A. Lerda⁽³⁾, V. Pasquali⁽³⁾ ¹Professor Emeritus University of Connecticut, Hartford, CT, ²School of Dentistry, Catholic University of Rome, Italy, ³Private Practice, Rome, Italy

Background

Emerging science has linked the breakdown in oral health to a degenerating oral biofilm where the ecology of the microbial community taken as a collective, rather than as specific putative species, seems to be the best model for understanding the dynamics and thus for designing effective treatment. Standard detergent-based toothpastes attempt to eliminate the oral biofilm which precludes any valuable function that a healthy biofilm might perform in maintaining oral health. An experimental oral therapy paste designed to shift a degenerative oral biofilm towards an ecology compatible with oral health, has been proposed. An initial pilot study in humans showed a 25% reduction in gingival inflammation after 7 days of use ($p < 0.05$). This study seeks to evaluate the effects of this paste (R), on plaque index (PI), gingival index (GI), and bleeding index (BI) as compared to a standard detergent-based toothpaste (Crest® Whitening Expressions) as control (C).

Method



Clinical Results:



42%

Reduction In
Gingival
Inflammation



46%

Reduction In
Plaque



72.5%

Reduction in
Bleeding

After fourteen days over a leading
toothpaste*
(*Crest Pro-Health Toothpaste)



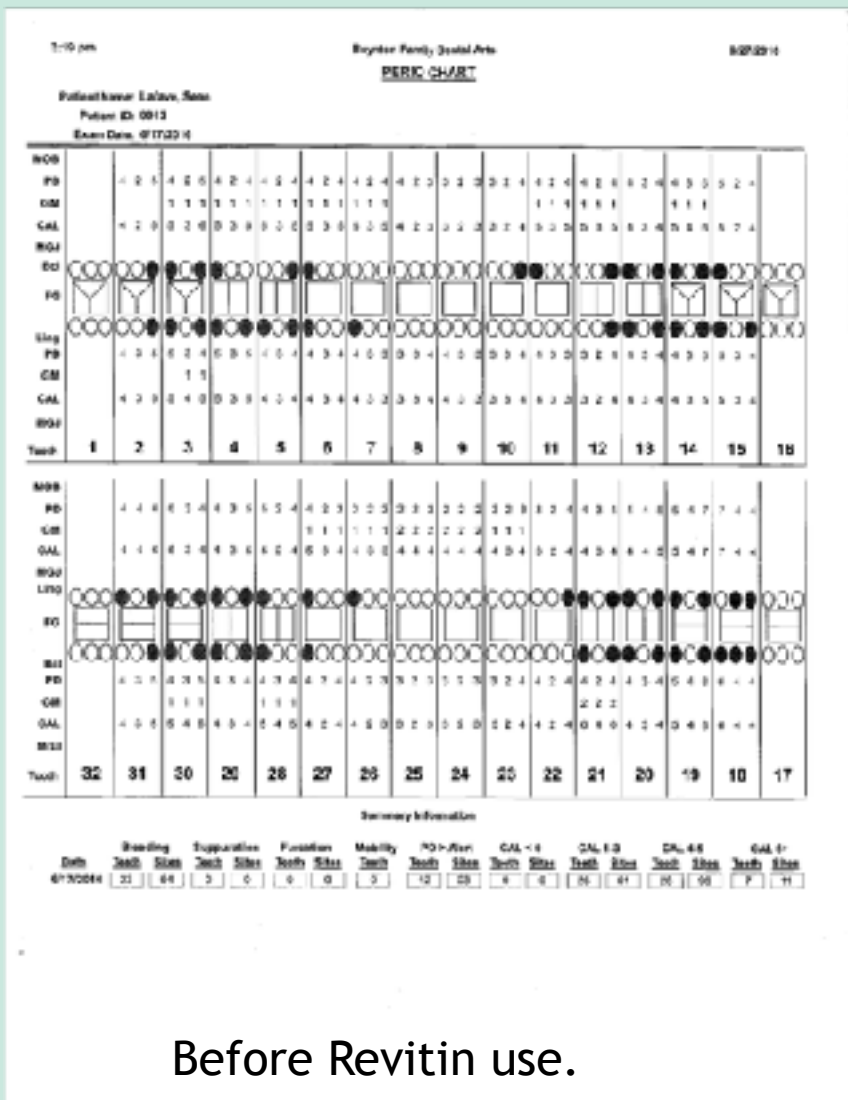
Clinical Results:

Red, bleeding gums become pink, firm, and healthy.

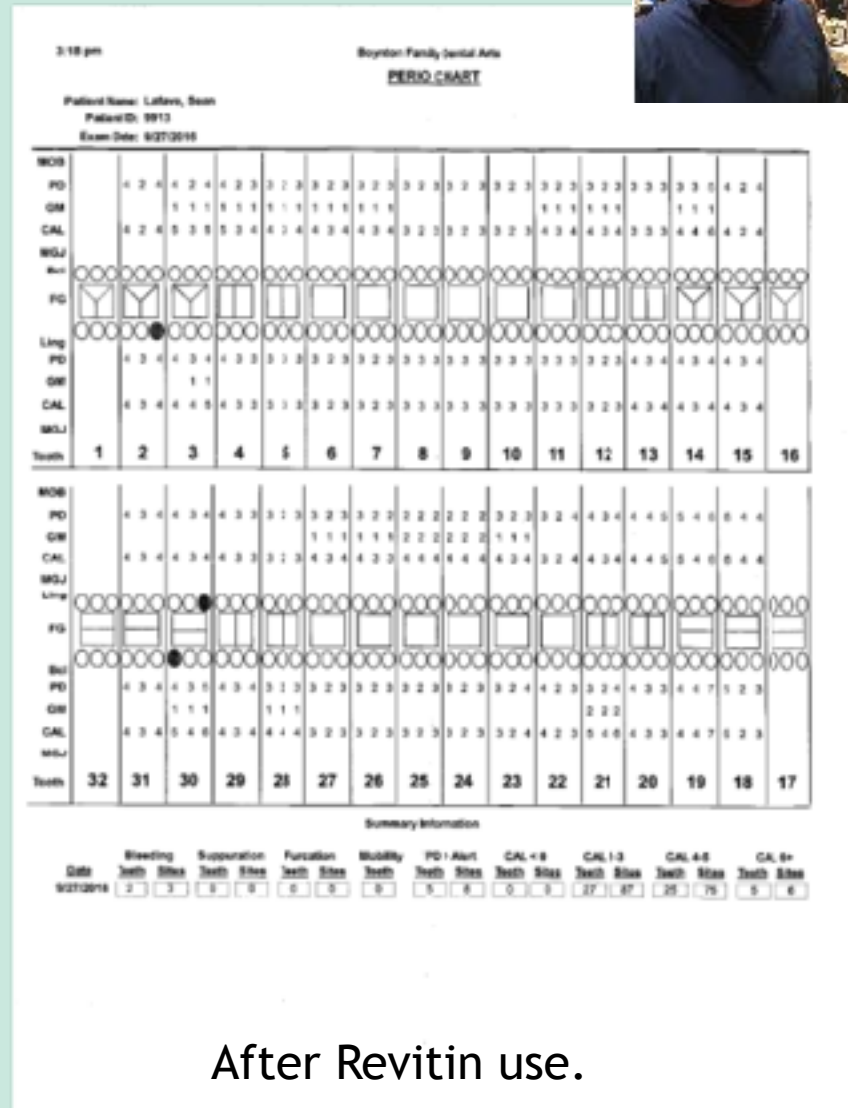


Four Days, Revitin Only

Clinical Results:



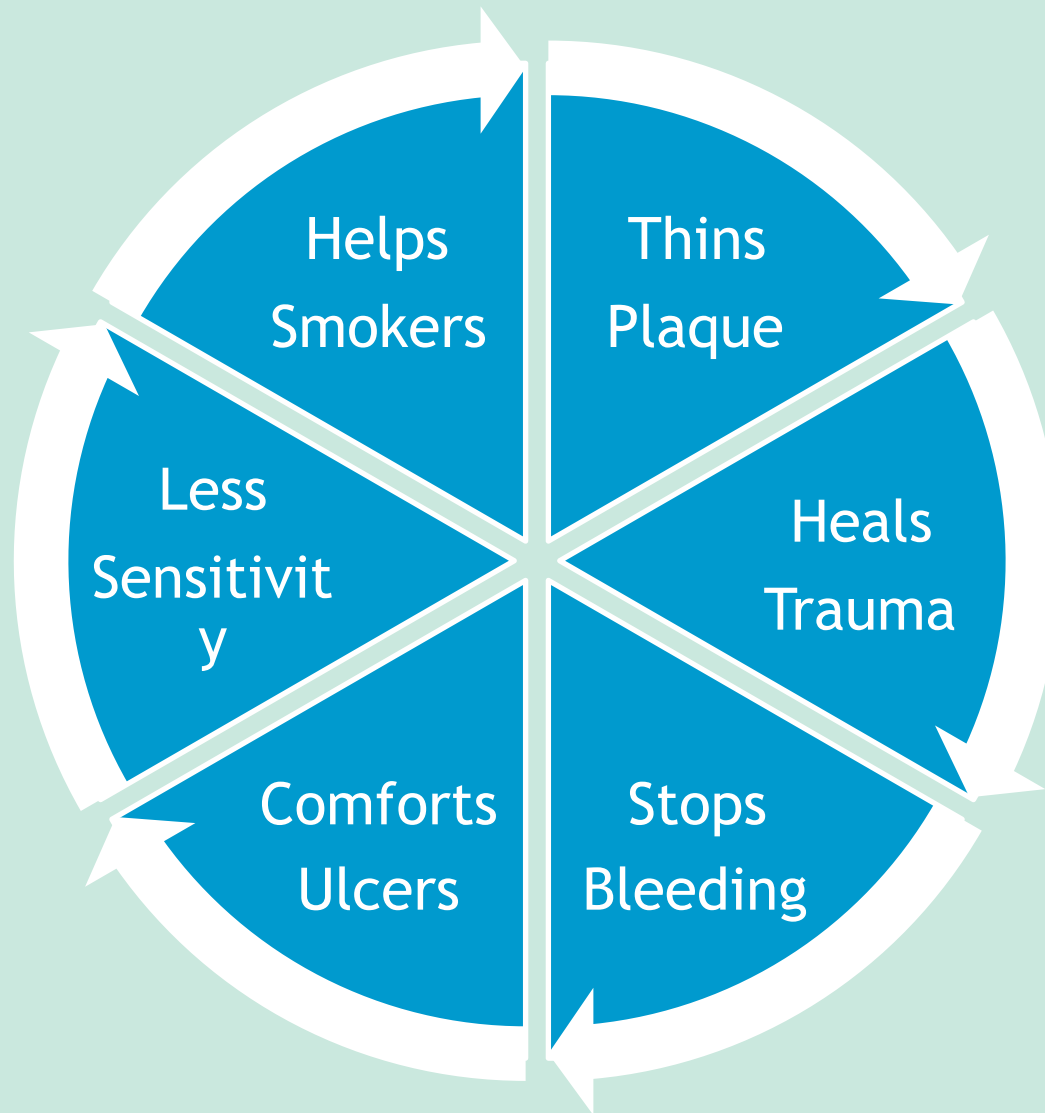
Before Revitin use.



After Revitin use.



Clinical Results:





Follow Dr. Gerry on Twitter and Facebook:

Twitter: @drgerrycuratola

Twitter: @Revitin

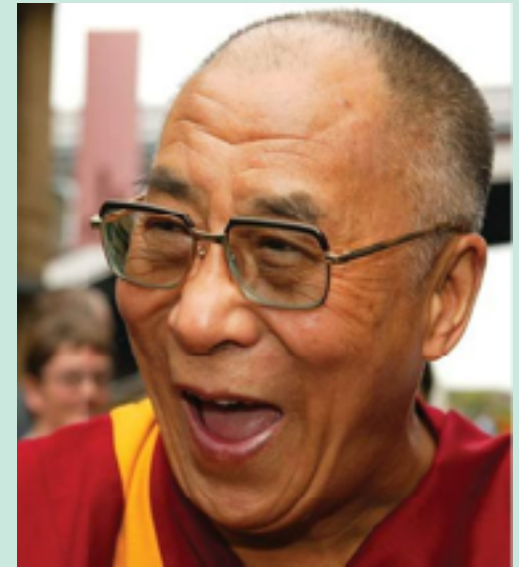
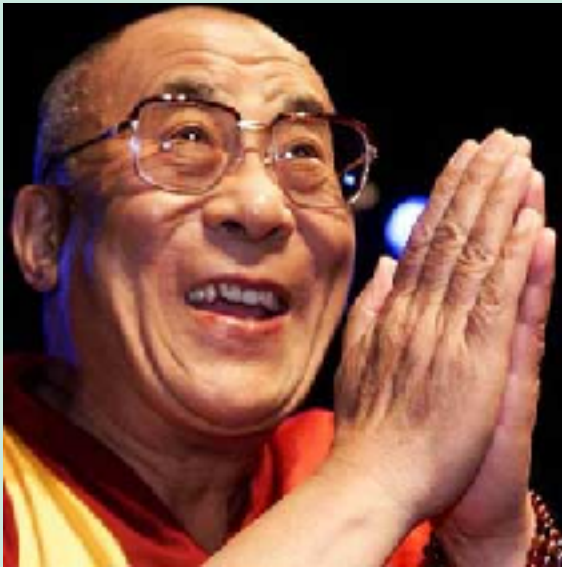
Facebook.com/GerryCuratolaDDS

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THANK YOU!



“Smile if you want a smile from another face.”

– Dalai Lama