# OF THE CALIFORNIA DENTAL ASSOCIATION OUT OF THE CALIFORNIA DENTAL ASSOCIATION

### **AUGUST 2011**

Market Changes and the Dentist-Lab Relationship

Mucogingival Surgery

Dr. Bob: Dental Nightmares



# Getting all of your insurance through the most trusted source? Good call.

# Protect your business: TDIC Optimum bundle

- Professional Liability
- Building and Business Personal Property
- Workers' Compensation
- Employment Practices Liability

### **Protect your life:**

- Life/Health/Disability
- Long-Term Care
- Business Overhead Expense
- Home and Auto

# Protecting dentists. It's all we do.

800.733.0633 tdicsolutions.com CA Insurance Lic. #0652783

Coverages specifically written by The Dentists Insurance Company include Professional Liability, Building and Business Personal Property, Workers' Compensation and Employment Practices Liability. Life, Health, Disability, Long-Term Care, Business Overhead Expense and Home and Auto products are underwritten by other insurance carriers and offered through TDIC Insurance Solutions.



### **DEPARTMENTS**

The Associate Editor/Earthquake Country

539 Impressions

543 Periscope

545 CDA Presents

585 Classifieds

596 Advertiser Index

Dr. Bob/Freddy Kruger Isn't Your Worst Nightmare



### **FEATURES**

### DENTIST-TECHNICIAN COLLABORATION IN THE DIGITAL AGE: ENHANCING OUTCOMES THROUGH PHOTOGRAPHY. TEAMWORK AND TECHNOLOGY

The most successful dental teams of the future will be built upon a strong sense of collaboration making full utilization of various digital technologies.

Todd R. Schoenbaum, DDS, FAGD, and Yi-Yuan Chang, MDC

### THE RELATIONSHIP BETWEEN DENTISTS AND DENTAL LABORATORIES — PREDICTIONS FOR THE FUTURE

This article provides an overview of the key market changes that are impacting the day-to-day relationship between dentists and dental laboratories and technicians.

Bennett Napier, CAE

### 573 MUCOGINGIVAL SURGERY: WHERE WE STAND TODAY

This paper provides an overview on mucogingival surgical procedures from its inception to the current time.

Vivek K. Bains, MDS; Vivek Gupta, MDS; G.P. Singh, MDS; and Rhythm Bains, MDS



# This is why we're here.

When you give to the CDA Foundation, you help fund local California clinics, support dentists who practice in underserved areas, and give countless children healthy, happy smiles. Help us celebrate a decade of creating smiles and changing lives by giving \$10. Simply text SMILES to 27722.\*

To learn more, visit cdafoundation.org and see how you can help create smiles and change lives.



# Journal

CDA Journal



Journal of the California **Dental Association** 

published by the California Dental Association 1201 K St., 14th Floor Sacramento, CA 95814 800.232.7645 cda.org

### Management

Kerry K. Carney, DDS EDITOR-IN-CHIEF Kerry.Carney@cda.org

Ruchi K. Sahota, DDS, CDE ASSOCIATE EDITOR

Brian K. Shue, DDS ASSOCIATE EDITOR

Peter A. DuBois EXECUTIVE DIRECTOR

Jennifer George VICE PRESIDENT, MARKETING AND COMMUNICATIONS

Alicia Malaby COMMUNICATIONS DIRECTOR

Jeanne Marie Tokunaga PUBLICATIONS MANAGER

Jack F. Conley, DDS EDITOR EMERITUS





### **Editorial**

Robert E. Horseman, DDS CONTRIBUTING EDITOR

Patty Reyes, CDE ASSISTANT EDITOR

Courtney Grant COMMUNICATIONS COORDINATOR

Crystan Ritter ADMINISTRATIVE ASSISTANT

### Advertising

Corey Gerhard ADVERTISING MANAGER

Jenaé Gruchow TRAFFIC/PROJECT COORDINATOR

### Production

Matt Mullin COVER DESIGN

Randi Taylor GRAPHIC DESIGN

Kathie Nute, Western Type TYPESETTING

### California Dental Association

Andrew P. Soderstrom, DDS PRESIDENT

Daniel G. Davidson, DMD PRESIDENT-ELECT

Lindsey A. Robinson, DDS VICE PRESIDENT

James D. Stephens, DDS SECRETARY

Clelan G. Ehrler, DDS TREASURER

Alan L. Felsenfeld, DDS SPEAKER OF THE HOUSE

Thomas H. Stewart, DDS IMMEDIATE PAST PRESIDENT

### Reader Guide:

### **Upcoming Topics**

september: Xerostomia остовея: CDA Foundation NOVEMBER: CDA Foundation

### **Manuscript Submissions**

Patty Reyes, CDE ASSISTANT EDITOR Patty.Reyes@cda.org 916-554-5333 Author guidelines are available at cda.org/publications/ journal\_of\_the\_california\_ dental\_association/ submit\_a\_manuscript

### **Classified Advertising**

Jenaé Gruchow TRAFFIC/PROJECT COORDINATOR Jenae.Gruchow@cda.org 916-554-5332

### **Display Advertising**

Corey Gerhard ADVERTISING MANAGER Corey.Gerhard@cda.org 916-554-5304

### Letters to the Editor

Kerry K. Carney, DDS Kerry.Carney@cda.org

### Subscriptions

The subscription rate is \$18 for all active members of the association. The subscription rate for others is as follows: Non-CDA members and institutional: \$40 Non-ADA member dentists: \$75 Foreign: \$80 Single copies: \$10 Subscriptions may commence at any time. Please contact: Crystan Ritter ADMINISTRATIVE ASSISTANT Crystan.Ritter@cda.org 916-554-5318

### Permission and Reprints

Jeanne Marie Tokunaga PUBLICATIONS MANAGER JeanneMarie.Tokunaga@ cda.org 916-554-5330

Journal of the California Dental Association (ISSN 1043-2256) is published monthly by the California Dental Association, 1201 K St., 16th Floor, Sacramento, CA 95814, 916-554-5330. Periodicals postage paid at Sacramento, Calif. Postmaster: Send address changes to Journal of the California Dental Association, P.O. Box 13749, Sacramento, CA 95853.

The Journal of the California Dental Association is published under the supervision of CDA's editorial staff. Neither the editorial staff, the editor, nor the association are responsible for any expression of opinion or statement of fact, all of which are published solely on the authority of the author whose name is indicated. The association reserves the right to illustrate, reduce, revise, or reject any manuscript submitted. Articles are considered for publication on condition that they are contributed solely to the Journal.

Copyright 2011 by the California Dental Association.

### Earthquake Country

RUCHI K. SAHOTA, DDS

y family takes full advantage of our city's lake. My brother and I grew up playing soccer in the surrounding park. My 3-year-old nephew sails down the slide at Lake Elizabeth. Moms and dads find time to push their kids on the swings. Red, blue, and yellow paddleboats float along the water. Two dozen or so seniors practice tai chi on the lawn. And my grandmother, mother, and I walk around the lake reviewing three generations of stories, advice, and happenings.

We enjoy these rituals happily but perhaps a bit innocently. According to a report published by the Working Group on California Earthquake Probabilities, the Uniform California Earthquake Rupture Forecast (UCERF), "the most likely source of [a major earthquake in Northern California] is the Hayward-Rodgers Creek fault." The Hayward Fault runs directly underneath my beloved Lake Elizabeth.

I was young when the earthquake in Loma Prieta hit. I remember my bedroom floor felt like it was going to drop from underneath me. I remember the roar of my bookshelf crashing. I remember my heart fluttering, my mind racing, and my limbs going numb. It was here and then gone within a minute or two.

When a fault starts to crack, the plates slip. This sudden movement causes the radiation of seismic waves. The waves spread out across the surrounding area "like ripples from a pebble thrown across a pond." As the waves pass along the damage, the ground shakes and we have ourselves an earthquake.

Events like the tsunami in South Asia and the recent earthquake in Japan remind us to look up the geography of our nearby California fault lines. Such research may be



Pythagoras said that our destinies hinge on the choices that we make. So if the Big One were to hit tomorrow, would we be prepared?

worthwhile. The UCERF predicts that there is a 99.7 percent chance of a "6.7 or larger earthquake during the next 30 years." It gets better. The report goes on to warn us of a 46 percent chance of a 7.5 or greater earthquake in the next 30 years. Either possibility is more likely to occur in Southern California yersus Northern California.

But we are Californians. We know what we signed up for. We choose to trade in the 2 percent chance per year of a major earthquake in California for the amazing weather.<sup>2</sup> We choose to live in "earthquake country."

Pythagoras said that our destinies hinge on the choices that we make. So if the Big One were to hit tomorrow, would we be prepared? Experts report that very few Americans have chosen to do so. They do not have emergency kits. They do not have emergency plans. They are not informed about what to do in the case of a disaster of any kind. In 2007, the American Red Cross calculated that only 7 percent of Americans were prepared.<sup>3</sup> Having an emergency kit, emergency plan, and preparation information are simple, inexpensive but necessary steps.

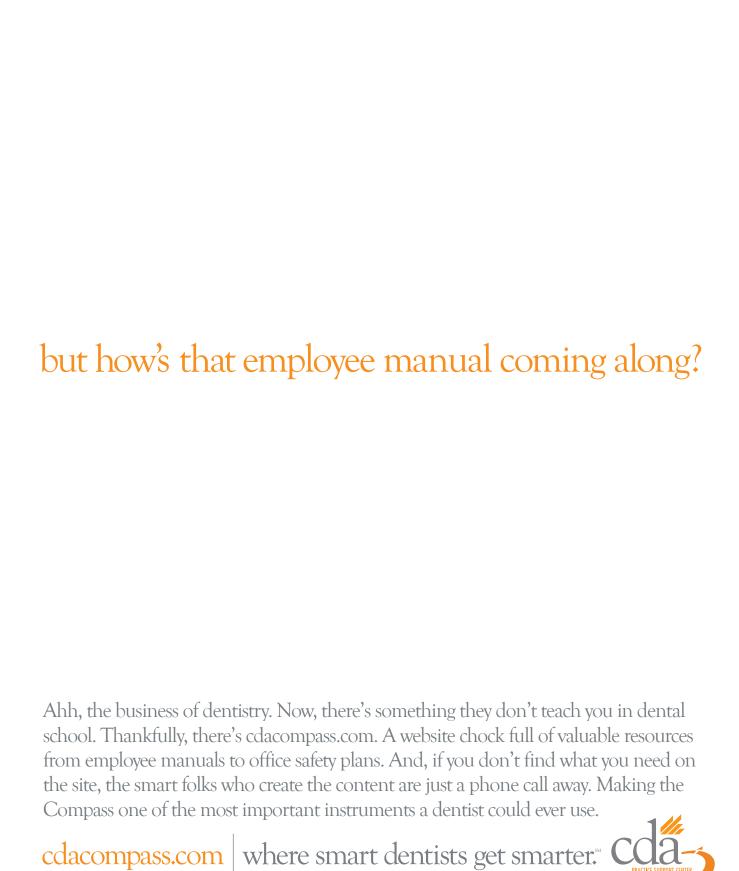
The Red Cross also recommends having an evacuation plan in place, learning how to shut off gas valves, and maintaining an emergency supplies kit in an easy-to-access location amongst other action items for a preparation to-do

list. A free tutorial is available at www. redcross.org/BeRedCrossReady. Practical advice regarding preparing your home, business, and/or children is also available on www.ready.gov. As doctors we pledge to "remember [to] remain a member of society, with special obligations to all my fellow human beings." This segment of the Hippocratic Oath directs dentists to be leaders in our community to all, especially when our fellow human beings are in the most distress. If the Big One were to hit tomorrow, wouldn't we also want to help our communities in the aftermath?

The ADA helped to introduce a bill into the House of Representatives in 2009 that would incorporate dentists into the national "emergency response provider" network. Dentists are traditionally limited to contributing their forensic knowledge to victim identification. George S. Patton, a U.S. army general during World War II, advised, "Prepare for the unknown by studying how others in the past have coped with the unforeseeable and the unpredictable." The ADA reports that "in some cases, dentists have not been allowed to take patient medical histories despite their qualifications."4 In the chaos and frenzy during a mass disaster, do officials forget that dentists triage patients, administer anesthetics, and take medical histories every day?

CONTINUES ON 536

It goes without saying that you're a pro with a half Hollenback carver,



### EDITOR, CONTINUED FROM 533

Military dentists have a different experience. They are categorically called to action in the case of an emergency, perhaps because the military acknowledges that dentists have fundamental medical knowledge. They triage victims. They can suture simple injuries. They decontaminate patients in the case of a biological, chemical, or nuclear exposure. A Journal of the California Dental Association article published in 2004 cited a study that reported, "military dentists came in second, only to general medical doctors, in their ability to correctly triage and treat injured individuals in a mass casualty situation."5

With supplementary disaster response education, a dentist can serve as additions to the public health care force in the case of a mass emergency. The ADA agrees, "Our nation's capacity to respond to emergencies depends a great deal on mobilizing health professionals at a moment's notice to triage and treat victims. This means utilizing all qualified health care personnel."4 The bill passed the House in 2010 and is now in the Senate. Illinois addressed this issue in 2005 and now lists dentists and dental hygienists as "dental emergency responders." CDA helped to introduce and advocated for the passage of AB 2210 in 2008. California dentists can now provide voluntary emergency medical care consistent with their training, with immunity from liability.

Though not specifically just for dentists, there are opportunities available for supplemental education. The Community Emergency Response Team (CERT) trainings are easily accessible in most parts of California. Trainings are specific to each geographical area's potential disaster whether it be an earthquake, fire, or tsunami. Dentists would learn essential emergency response skills: fire safety, light search and rescue, team organization, and disaster medical operations. With

"Military dentists came in second, only to general medical doctors, in their ability to correctly triage and treat injured individuals in a mass casualty situation."

this training, we cannot only take a role in disaster response, but we can also feel comfortable taking more of a leadership role within their communities.

Forecasts predict we will experience another major earthquake in California during our lifetimes. But of course, my family's trip to Lake Elizabeth will not stop. We probably will not tippy toe around the fault either. We will hope that the Hayward Fault will not shift or give way to seismic earthquake waves but not trust our safety to that hope. We will update our kits, ensure our plans are intact, and continue to gather more information on being prepared for any emergency. Because as Anderson Cooper reflected once, "Hope is not a plan."

### REFERENCES

- 1. U.S. Geological Survey, April 15, 2008. California has more than 99 percent chance of a big earthquake within 30 years, report shows. ScienceDaily sciencedaily.com / releases/2008/04/080414203459.htm. Accessed May 27,
- 2. Field EH, Dawson TE, et al, Uniform California earthquake rupture forecast, 2008. Working group on California earthquake probabilities. http://pubs.usgs.gov/of/2007/1437/. Accessed May 27, 2011.
- 3. New poll reveals only 7 percent of Americans are "Red Cross Ready" for a disaster or emergency. American Red Cross news
- 4. Coalition letter urging members of the Senate to sponsor the Dental Emergency Responder Act, April 13, 2009. ada. org/sections/advocacy/pdfs/disaster\_090610\_coalition\_senate\_letter.pdf. Accessed May 27, 2011.
- 5. Galligan JM, Dentists can contribute expertise in a major public health disaster. J Calif Dent Assoc 32(8)701-8, 2004.

### The Journal of the California Dental Association welcomes letters.

We reserve the right to edit all communications and require that all letters be signed. Letters should discuss an item published in the Journal within the past two months or matters of general interest to our readership. Letters must be no more than 500 words and cite no more than five references. No illustrations will be accepted. Letters may be submitted via e-mail to the Journal editor-in-chief at kerry.carney@cda.org. By sending the letter to the Journal, the author certifies that neither the letter nor one with substantially similar content under the writer's authorship has been published or is being considered for publication elsewhere, and the author acknowledges and agrees that the letter and all rights of the author with regard to the letter become the property of the California Dental Association.

# Designed For Success, Packaged For Value





### **Legacy™ Implant System Advantages:**

### Industry-Compatible Internal Hex

**Customer Service 8** 

**Technical Support** online, over the

Prosthetic compatibility with Zimmer Dental Screw-Vent®, BioHorizons® & MIS implants

### Surgical Compatibility with Tapered Screw-Vent®

No need to change surgical protocol or tools

### Three Implant Designs & Packaging Options

Allows for selection based on price, packaging or thread design

Legacy1: \$125 includes cover screw, healing collar & plastic carrier

Legacy2: \$150 includes cover screw, healing collar & temporary abutment/transfer

Legacy3: \$175 includes cover screw, healing collar & preparable abutment/transfer

### Micro-Threads

Reduce crestal stress for improved initial stability

### Widest Range of Dimensional Options

The entire Legacy system includes seven implant diameters (3.2, 3.7, 4.2, 4.7, 5.2, 5.7, 7.0mm) & six implant lengths (6, 8, 10, 11.5, 13, 16mm)



\$65

\$172

\$160

N/A

### Intro Offer: Make the switch & receive three FREE implants<sup>2</sup>.

Legacy1

Standard "V" Threads

Legacy2 Spiral Threads

Legacy3 **Buttress Threads** Matches Screw-Vent® for Increased Stability for Increased Surface





### **Impressions**



### Fools

BY DAVID W. CHAMBERS, PHD

Arguing with a fool is a sure way of multiplying the number of fools in the world. A fool cannot be ethical. Arguing with a fool about ethics is surely a way to make lots of fools.

It is foolish to think insurance companies lack means for discovering fraud. Only fools think that the profession will magically govern itself and enhance its capacity to serve the public without leadership for volunteer dentists. We cannot fix these problems by expounding ethical theory. A fool who has been lectured to is still a fool.

There is more to being a fool than "lacking wisdom," "being easily duped or a person of weak mind." I know many brilliant fools. How else could they be elected to public office, earn enough money to invest in Ponzi schemes, or support substance habits?

CONTINUES ON 540

### Dental Codes App for Mobile Devices Now Available

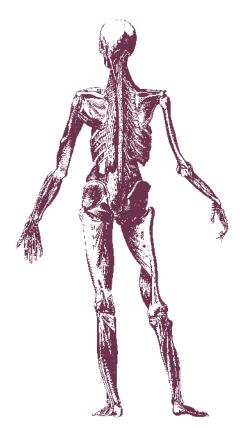
The American Dental Association recently debuted a new app, CDT Code Check, for the iOS (iPhone and iPad) and Android-powered mobile devices (phones and tablets).

The app makes it easier to find dental billing codes. The CDT Code Check, which contains every code on dental procedures and nomenclature, is a portable resource designed to assist dental professionals who use procedure codes for developing treatment plans, managing patient medical charts and submitting insurance claims, according to a news

release. Because the app is portable, it's the perfect tool for dentists and dental staff who travel between offices.

The app includes new and revised codes with marked changes, a complete listing of each CDT Code, including category of service, subcategory, procedure code, nomenclature and descriptor. Users also can search by keyword or code number. The cost of the app is \$19.99, and it is available in the Apple iTunes Store and in the Android Market by searching for the phrase "CDT Code Check."





### OSHA Temporarily Withdraws Proposal for Musculoskeletal Reporting

The Occupational Safety and Health Administration (OSHA) has temporarily withdrawn a proposed rule that would require small businesses to report workrelated musculoskeletal disorders on employer injury and illness logs, a rule many have characterized as the "back door" to a new ergonomics standard. OSHA abandoned the proposal to obtain more input from the small business community, a procedure federal agencies must follow whenever a proposed rule would have a significant economic impact on a substantial number of small entities.

Dental offices are exempt from having to comply with the recordkeeping requirement, unless a workplace incident causes the hospitalization or death of three or more employees. Nevertheless, the ADA has been working through a business coalition - the National Coalition on Ergonomics (NCE), led by the U.S. Chamber of Commerce - to formulate and advance an appropriate employer community response to any specific legislative or regulatory ergonomics proposals.

The Washington, D.C.-based NCE has long opposed OSHA's efforts to regulate ergonomics in the workplace. The NCE is endorsed by a number of organizations including the Academy of General Dentistry, the American Hospital Association, American Small Business Association, American Trucking Associations, International Mass Retail Association, and the United States Chamber of Commerce.



based on a flawed picture of the world. one will act foolishly.

### FOOLS, CONTINUED FROM 539

Fools are people who bet their lives on mistaken interpretations of the world. The fool says, "I will perform serial endodontics on this patient to stop her complaints of facial pain because I heard a theory at a hotel course. It would be a bad bet on the future to believe because I am smarter than my patients or because I can work faster and serve more patients that way I need not present all treatment options."

If sound reasoning is based on a flawed picture of the world, one will act foolishly. Ethical foolishness is self-duping that harms others. As the philosopher Simon Blackburn observed with regard to morality: few people are bad, but many are blind.

Even people who have good intentions can be moral cripples. Charlatans are out to take advantage of the public, but quacks truly believe in laetrile, delegation of duties to (legally) unqualified auxiliaries, or cosmetic work piled on top of boggy gums.

Consider a bright dental student studying for national boards. A friend shows her a stack of study questions, saying they are "released" in the sense that a group of students from across the country has collaborated in pooling items they memorized when taking the computerized versions of the test. Our hypothetical student is offered the "study material" at no cost because it is something that students have agreed to do to help each other out, and she is reminded that all applicants to the highly competitive ortho programs will be using this material. There are several ways this student could become a fool. The system already stands convicted of foolishness.

Dentistry is not a profession where one wants to fool around.

The nub:

- 1 Moral behavior requires an accurate understanding of the facts of the situation.
- 2 Alarm bells should be ringing if the only reason for behavior is that "others are doing it" or "it is expected of me."
- 3 Don't criticize colleagues you disagree with: sit down with them and try to understand the way they see the world. If their world view is indefensible, show them a better one.

David W. Chambers, PhD, is professor of dental education, Arthur A. Dugoni School of Dentistry, San Francisco, and editor of the Journal of the American College of Dentists.

### Are 'Amalgam-Free' Dental Practices Ethical?

Are dental practices that call themselves "amalgam-free" ethical? It was a question tackled in a recent issue of the Journal of the Michigan Dental Association.

"Both the ADA and the MDA constantly remind members that they have an ethical obligation to discuss all treatment options, including restorative material options, with patients, always being mindful to base those discussions on valid scientific evidence and standards of care," said Michael Maihofer, DDS, chairman of the MDA Committee on Peer Review/Ethics, adding that there is nothing wrong with a dentist choosing not to use dental amalgam as a restorative material for his or her patients. The ethical obligation, however, is to fully discuss with patients their options, including,

if applicable, amalgam. Additionally, a dentist must be satisfied that alternative materials are clinically acceptable for the restorative job.

A dentist, Maihofer said, cannot state or suggest that dental amalgam is somehow toxic or unsafe as a proper restorative option. Amalgam's mercury content may be disturbing to some patients and dentists alike. Nevertheless, ongoing studies continue to show the safety and efficacy of dental amalgam. To suggest otherwise is not true and a violation of the ADA's Principles of Ethics and Code of Professional Conduct.



### Campaign Launched to Reduce Noncommunicable Diseases

A statement by health professions from around the globe has cautioned that the outbreak of noncommunicable diseases (NCDs) has resulted in a major threat to "human health and development and unless urgently addressed, the burden of NCDs would continue its dramatic increase," according to a news release.

The World Health Professions Alliance (WHPA) announced that NCDs should be viewed in a holistic way as a combined threat to global health.

In 1999, the global organizations representing the world's nurses, pharmacists and physicians joined forces, creating a unique alliance to address global health issues. The WHPA represents 23 million health care professionals worldwide. Its members are the International Council of Nurses, the International Pharmaceutical Federation, the FDI World Dental Federation, and the World Medical Association. Alliance partners are committed to taking an unprecedented proactive role to deliver improved health care to global populations.

Leaders including dentists, nurses, pharmacists, physical therapists and physicians said a single strategy is needed to prevent and manage NCDs ranging from oral disease, some forms of cancers, cardiovascular disease, diabetes, mental disorders, and chronic respiratory diseases that accounted for the deaths of 36 million people (60 percent globally) in 2008, many of those individuals prematurely. Almost 80 percent of the deaths occurred in lowand middle-income countries.

Oral diseases such as cancer, caries. and periodontal problems are sometimes neglected but are a considerable factor in one's overall health, as are mental disorders such as depression.

The recently issued WHPA statement said the four main risk factors are tobacco use, unhealthy diet, physical inactivity, and harmful use of alcohol. To make a meaningful reduction in NCDs it is necessary to take action on the broader factors influencing health behaviors, the conditions in which people are born, grow, live, work and age, and the influence of society. It is crucial to tackle the social determinants of health.



What you get by achieving your goals is not as important as what you become by achieving your goals.





### UPCOMING MEETINGS

2011	
Sept. 12-17	American Association of Oral and Maxillofacial Surgeons, Philadelphia, aaoms.org
Sept. 14-17	FDI Annual World Dental Congress, Mexico City, www.fdicongress.org. Please also view this related video: youtube.com/watch?v=3N4okaVMYhs
Sept. 22–24	CDA Presents the Art and Science of Dentistry, San Francisco, 800-CDA-SMILE (232-7645), cdapresents.com
Oct. 10-13	ADA 152nd Annual Session, Las Vegas, ada.org
Oct. 23-26	National Primary Oral Health Conference, National Harbor, Md., nnoha.org/conference/npohc.html
Nov. 6-12	United States Dental Tennis Association, Palm Desert, Calif., dentaltennis.org
Dec. 16-17	First Dental Conference, Scientific Dental Committee at the Palestinian Dental Association in Lebanon, Beirut, Lebanon, 916-780-1955
2012	
March 29- April 1	CSPD/WSPD Annual Meeting, Portland, Ore., drrstewart@aol.com
April 26-28	World Federation for Laser Dentistry, 13th Annual World Congress, Barcelona, Spain, wfldbcn2012.com
May 3-5	CDA Presents the Art and Science of Dentistry, Anaheim, 800-CDA-SMILE (232-7645), cdapresents.com
Oct. 18-23	ADA 153rd Annual Session, San Francisco, ada.org

To have an event included on this list of nonprofit association continuing education meetings, please send the information to Upcoming Meetings, CDA Journal, 1201 K St., 16th Floor, Sacramento, CA 95814 or fax the information to 916-554-5962.

### Parents Who Smoke Increase Their Kids' Risk of Behavioral, Health Problems

Researchers at the University of Bristol in England have found that the offspring of women who smoked during their pregnancy were likelier to have behavioral problems by the time they reached age 4. Additionally, children whose fathers smoked tended to become obese, according to researchers in Hong Kong in their own study.

Researchers have long-known that pregnant women who smoke increase the chances their children may be born prematurely, have low birth weight, reduced lung function, and developmental delays. Moms who continue to smoke after giving birth also bump up their children's risk for asthma, ear infections, pneumonia, and sudden infant death syndrome. The new information also suggests these children are at increased risk of obesity, a key risk factor for heart disease and diabetes, as well as maternal smoking.

In the British study, scientists determined children of mothers who smoked during pregnancy were more aggressive and defiant. Researchers speculated this was due to exposure by the mother during prenatal development.

Data also emerged of a possible link between environmental toxins and behavioral problems such that youngsters exposed to organophosphate pesticides used in vegetables and fruits were more likely to have attention deficit hyperactivity disorder, according to an article in U.S. News & World Report.

Scientists in Hong Kong and England viewed data on thousands of children for these studies and both papers were published in a recent issue of Pediatrics.

### Periscope



### **IMPLANTS**

RICHARD T. KAO, DDS, PHD, AND DAVID W. RICHARDS, DDS, PHD

### The Predictability of Esthetic Outcomes

Buser D, Halbritter S, et al, Early implant placement with simultaneous guided-bone regeneration following single-tooth extraction in the esthetic zone: 12-month results of a prospective study with 20 consecutive patients. J Periodontol 8o(1):152-62, January 2009.

PURPOSE: The aims of this study were twofold: one, to assess the esthetic treatment outcomes of early implant placement in singleedentulous sites located in the esthetic zone; and second, to provide detailed information about the predictability of esthetic outcomes using objective esthetic parameters.

**METHOD:** The study included 20 partially edentulous patients presenting for a single-tooth replacement in the anterior maxilla. Extractions without flaps were allowed to heal for four to eight weeks. Implants were placed with a simultaneous contour augmentation on the facial aspect using the guided-bone regeneration (GBR). Patients were prospectively followed for 12 months. Clinical, radiologic, and esthetic parameters were recorded.

RESULTS: At the 12-month examination, all 20 implants were successfully integrated. The esthetic outcomes assessed by a pink esthetic score (PES) and a white esthetic score (WES) demonstrated pleasing results overall. The periapical radiographs showed minimal crestal bone loss around the used bone level implants, with mean bone loss of 0.18 mm at 12 months. Only one implant showed >0.5 mm bone loss, combined with minor mucosal recession of 0.5 to 1.0 mm.

**CONCLUSIONS:** Early implant placement demonstrated successful tissue integration for all 20 implants. The short-term follow-up of 12 months revealed pleasing esthetic outcomes overall, as assessed by objective parameters. The risk for mucosal recession was low. These results need to be confirmed with three- and five-year follow-up examinations.

**CLINICAL RELEVANCE:** This study is prospective and extremely welldocumented. It represents one side in a controversy regarding the best way to replace teeth in the esthetic zone. The objective parameters used to evaluate the esthetic outcomes are of special interest.

### IMAGING

SANJAY M. MALLYA, BDS, MDS, PHD, AND SOTIRIOS TETRADIS, DDS, PHD

### **CBCT Imaging and Orthodontic Management**

Haney E, Gansky SA, et al, Comparative analysis of traditional radiographs and cone beam computed tomography volumetric images in the diagnosis and treatment planning of maxillary impacted canines. Am J Orthod Dentofacial Orthop 137(5):590-7, May 2010.

THE CLINICAL PROBLEM: Orthodontic management of impacted maxillary canines requires precise localization. This information allows the clinicians to determine suitable surgical access and plan the direction of orthodontic recovery forces. Cone beam computed tomography (CBCT) is frequently used to assess the location of these impacted teeth. Whether CBCT imaging contributes to alteration of the treatment plan is not known.

**AIM:** To determine the impact of cone beam computed tomography (CBCT) on diagnosis and management decisions for impacted maxillary canines, relative to traditional 2-D imaging.

METHOD: Eighteen patients, with a total of 25 impacted maxillary canines, were included in this study. Each patient was imaged using periapical, occlusal and panoramic radiographs (2-D images) and CBCT scans. The 2-D and CBCT images were examined independently. Observers noted location of teeth, the presence of root resorption, and treatment plans.

**RESULTS:** In 37 percent of the cases there was a difference between the two modalities in identifying the presence of resorption of the adjacent teeth. Importantly, in 27 percent of the cases planned with 2-D images, CBCT information resulted in different treatment plans. The clinicians' confidence in the accuracy of diagnosis and treatment plan was significantly higher for CBCT images (p≤0.001).

**CONCLUSIONS:** Localization and orthodontic management of impacted maxillary canines is strongly influenced by the use of CBCT imaging.

**BOTTOM LINE:** This imaging modality could improve treatment planning and treatment outcomes.

### **PERIODONTICS**

GERALD I. DRURY, DDS

### Systemic Administration of Antibiotics and Full-Mouth Debridement

Ribeiro Edel P, Bittencourt S, et al, Full-mouth ultrasonic debridement associated with amoxicillin and metronidazole in the treatment of severe chronic periodontitis. J Periodontol 8o(8):1254-64, August 2009.

BACKGROUND: The purpose of this randomized, double-masked, and controlled clinical study was to evaluate the adjunctive clinical, microbiologic, and immunologic effects of the systemic administration of amoxicillin and metronidazole in the full-mouth ultrasonic debridement of patients with severe CP.

**METHODS:** Twenty-five patients were randomized into two groups. Patients were subjected to one of two treatments: one session of full-mouth ultrasonic debridement, associated with the administration of placebo (control group) or with the administration of amoxicillin, 375 mg, and metronidazole, 250 mg, three times a day for seven days (test group). The parameters assessed at baseline and at three and six months after therapy were visible plaque index, gingival bleeding index (GBI), and BOP.

**RESULTS:** With regard to GBI, nsd was observed between the groups at any experimental period, and both groups had a significant reduction at three to six months compared with baseline. BOP decreased during the study in both groups. Both groups showed an increase in PGM, a reduction in PD, and a gain in RAL. A difference between the groups was found with regard to the proportion of sites with PD ≥ 5 mm at all periods of evaluation. At three months, 21.30 percent of the sites in the control group still had PD ≥ 5 mm, whereas only 8.93 percent of sites in the test group did. The percentage of sites that needed retreatment at three months was 10.18 percent in the control group and 2.68 percent in the test group. At six months, the values were 9.26 percent and o percent, respectively.

**CONCLUSIONS:** The authors concluded that both treatments resulted in significant clinical improvements. Nsd were observed in the microbiologic and immunologic outcomes with the adjunctive use of systemic amoxicillin and metronidazole.

**BOTTOM LINE:** Adding systemic antibiotics to full-mouth ultrasonic debridement yields improved short-term clinical benefit, but no significant microbial or immunologic change.

### **SURGERY**

D.D.R. YAMASHITA, DDS

### Impacted Maxillary Canines

Bedoya MM, Park JH, Review of the diagnosis and management of impacted maxillary canines. J Am Dent Assoc 140(12):1485-93, December 2009.

**AIM:** To review and compare the radiographic diagnoses of impacted maxillary canines, as well as the interceptive treatment currently used to prevent or treat impacted canines.

METHODS: A literature review from 1959-2009 using clinical and radiographic studies involving prevalence, etiology, and diagnosis of impacted maxillary canines as well as the available literature reviews and case reports from the past 10 years that addressed the surgical and orthodontic techniques used for management of impacted maxillary canines.

**RESULTS:** Various clinical signs of impacted canines were documented including delayed eruption of permanent canine, retained primary canine, absence of a labial bulge, presence of a palatal bulge, and distal crown tipping of the lateral incisor. Radiographic techniques varied from intraoral methods to extraoral techniques, but the most practical method was found to be an occlusal with X-ray tube placed 60 degrees to the occlusal plane. Interceptive treatment proved to be ideal when the primary canine was extracted before 11 years of age. The success was found to decrease to 64 percent if the permanent canine crown was mesial to the midline of the lateral incisor. The most common method for treating palatally impacted canines and bringing them into occlusion are surgical exposure and using orthodontic forces. Labially impacted canines were generally treated by gingivectomy, an apically positioned flap, or a closed eruption technique.

**CONCLUSIONS:** With proper evaluation and treatment the frequency of impacted canines can be significantly reduced with the simplest form of preventive treatment being timely extraction of the primary canines. Careful selection of surgical and orthodontic techniques is essential for successful treatment.

**CLINICAL RELEVANCE:** Since maxillary canines play such a vital role in arch development and occlusion, as well as facial and dental esthetics, it is important that interdisciplinary care, including general practitioners along with various specialists (pedo, OS, perio, ortho) provide early detection and timely interception. However, while improvement in prevention is elemental to improved outcomes, late-stage impactions must be treated with well-managed surgical and orthodontic treatment, in order to provide optimal results for those patients with maxillary impacted canines.

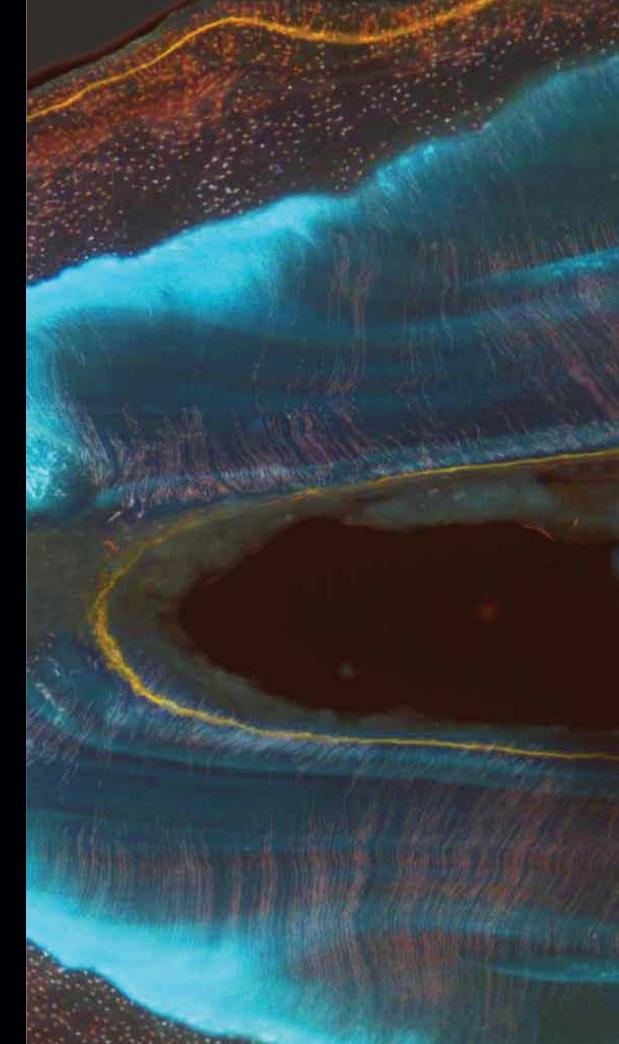


The Art and Science of Dentistry

Save the Date

San Francisco California

Thursday — Saturday Sept. 22—24 2011



### **Headlining Speakers**



Stephen Buchanan, DDS, FICD, FACD

**Endodontics** 

The New Art of Endodontics: Everything's Changed
Except the Anatomy......Friday morning lecture
The New Art of Endodontics: Gaining Procedural
Mastery With New Tools.....Friday afternoon lecture
The New Art of Endodontics:
The Workshop.....Saturday workshop



John O. Burgess, DDS, MS

**Restorative Dentistry** 

The Directly Placed Adhesive RestorationFriday lecture
Bleaching Discolored Teeth and Restoring Endodontically Treated TeethSaturday morning lecture

### **Dental Materials**

Preventive Materials — Using Them to Build an Effective Practice ......Saturday afternoon lecture



Joe H. Camp, DDS, MSD

**Endodontics** 

Pulpal Management of Young Permanent Teeth, Traumatic Injuries and MTA Uses.......Thursday morning lecture Mechanical Instrumentation and Obturation of Root Canals......Thursday afternoon lecture Pulpal Management of Young Permanent Teeth, Traumatic Injuries and MTA Uses......Friday morning workshop Mechanical Instrumentation and Obturation of Root Canals......Friday afternoon workshop



John A. Kanca, DMD

**Esthetic Dentistry** 

Adhesive Dentistry 2K11 .....Friday lecture



Gerard Kugel, DMD, MS, PhD

**Cosmetic Dentistry** 

Esthetic Dentistry: Keys to Success ...... Saturday lecture



Karen Davis, RDH, BSDH

### **Dental Hygiene**

America's Sweet Tooth Obsession and Its Impact on Oral and Systemic Health......Thursday morning lecture

It's Not What You Say, or Is It? Effective Communication and Enrollment Skills for the Dental Team.....Thursday afternoon lecture



Howard S. Glazer, DDS, FAGD

### **Product Review**

What's Hot and What's Getting Hotter!.....Friday lecture
First Impressions Do Count! Impressions and Provisional —
No Fuss, No Muss .......Saturday morning workshop
Composites Can Be Beautiful: Hands-on Composite Layering and
Class II Restorations .......Saturday afternoon workshop



Mark E. Hyman, DDS

### **Practice Management**

A 360 Slam Dunk Guide for Successful
Teams ......Friday lecture
Ask and Ye Shall Receive! The Art of Getting
to "Yes" .....Saturday lecture



### Ronald Jackson, DDS, FAACD, DABAD

### **Operative Dentistry**

Anterior Composite Artistry: Conservative, Versatile, Underused .......Friday lecture Composite Artistry Workshop......Saturday workshop



**Corky Willhite, DDS** 

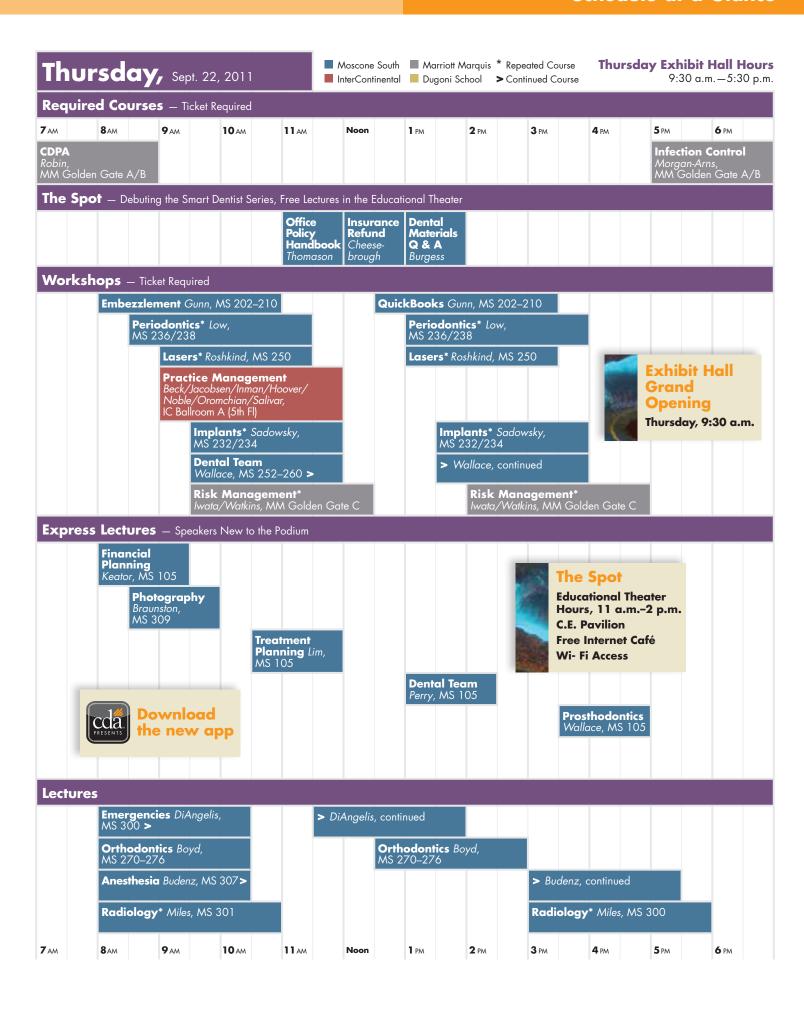
### **Esthetic Dentistry**

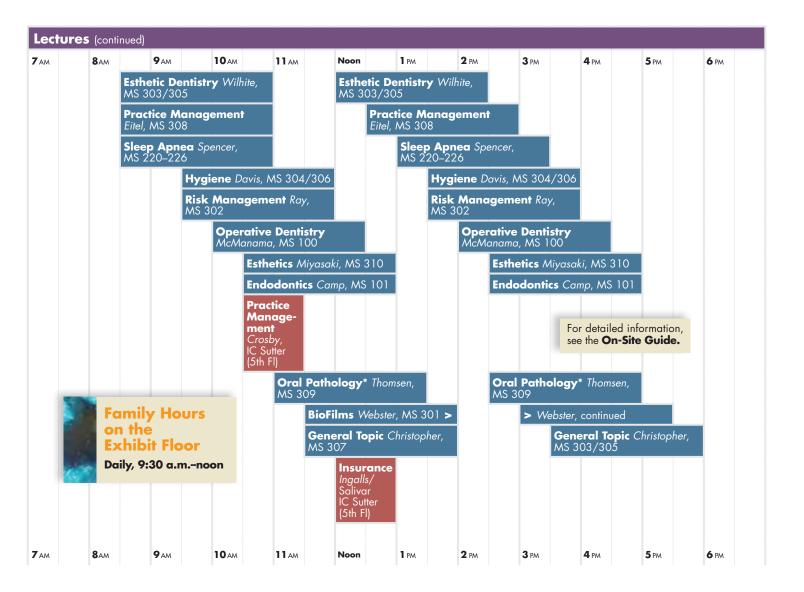
Transitional Bonding: Nontraditional

Composite Restorations for Major Occlusal and Esthetic Changes......Thursday afternoon lecture

Transitional Bonding: Adding Incisal Length for Function and Esthetics ....... Friday morning workshop

Making a Dark Tooth Bright ...... Friday afternoon workshop



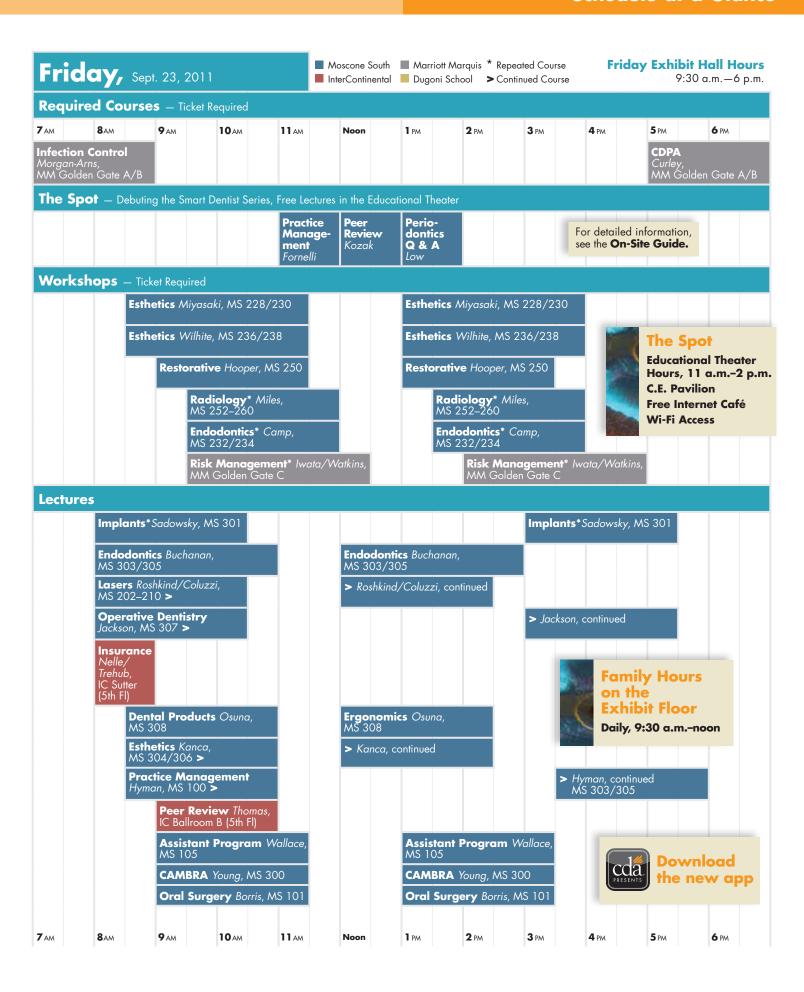


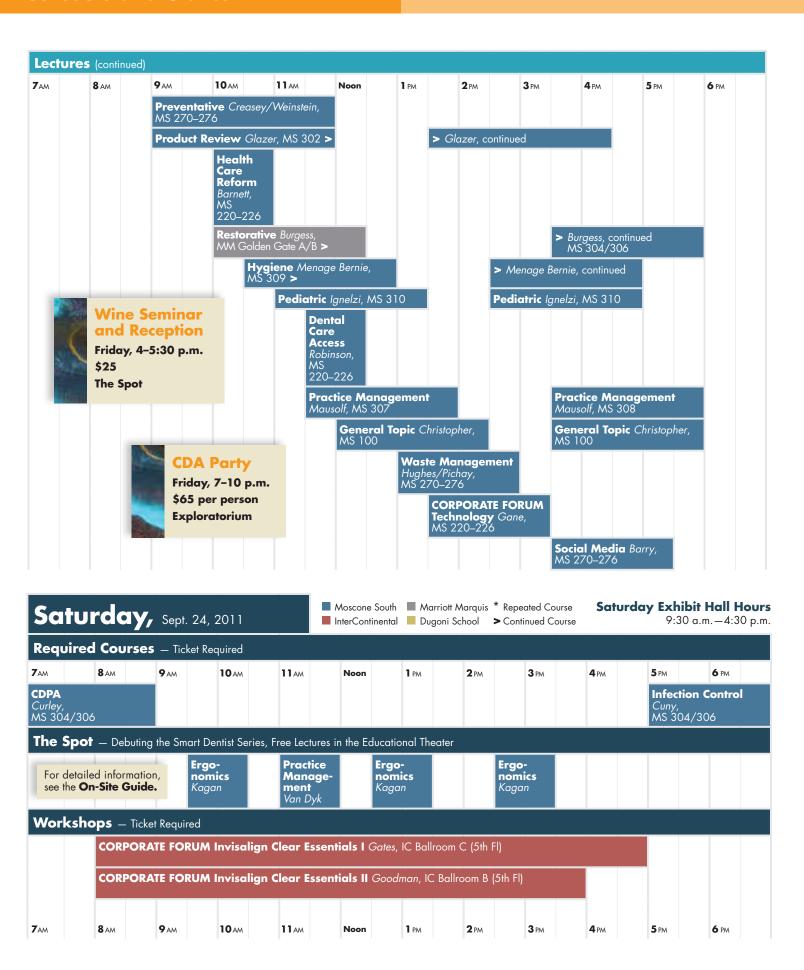
# Big changes often start small.

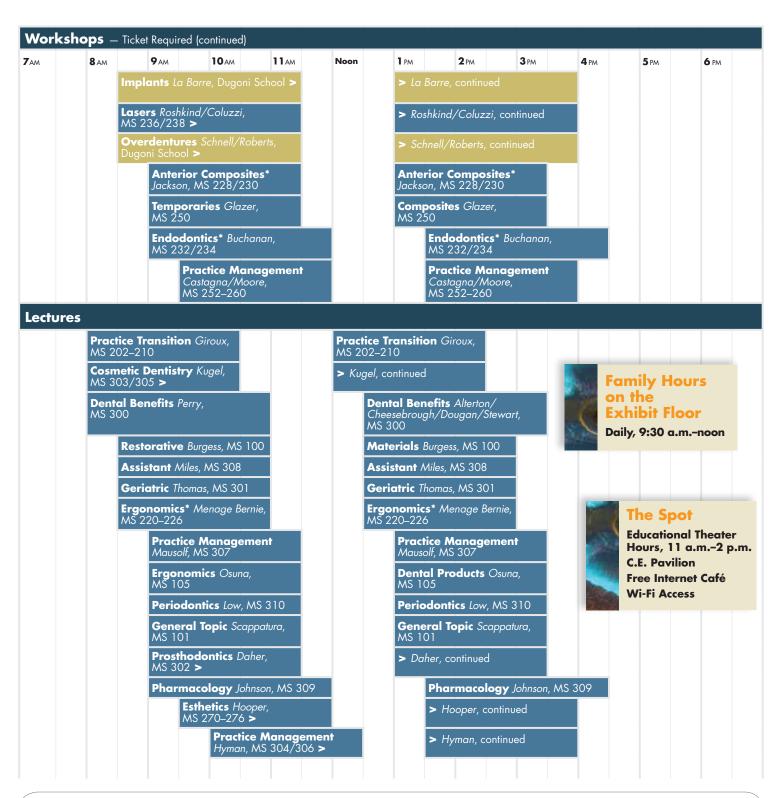


In an effort to do our part for the environment and save our members money, *CDA Presents* will no longer print course handouts for classes in Anaheim and San Francisco. A small effort that will save over 1.3 million pieces of paper each year. Plus, by investing the savings, we can continue to enhance the benefits of *CDA Presents* for members and their teams.

Attendees can access most course handouts at cdapresents.com and are welcome to print them out if they wish. In addition, each show's On-Site Guide will now provide space for note taking. And as always, audio recordings of many classes will be available for purchase at the conclusion of each show. By working together, we can do great things.









### Join the conversation

Want to plan the perfect meeting experience? There's an app for that! From their mobile devices, Blackberry and Windows Mobile users can download the app from cdapresents.com. IPhone and Android users can search for CDA Presents in their respective app stores. Available in September.



New app



It was created by a physicist and houses a geometry playground, microscope imaging station and a calculator powered by the force of gravity. It's the Exploratorium, the destination of this year's CDA Party. Join us for a bountiful buffet, fascinating exhibits and live music from '80s cover band Tainted Love.

### Friday, Sept. 23

7-10 p.m. (please arrive by 8 p.m.)

### **Exploratorium**

3601 Lyon St.

(Transportation available from the Moscone Center)

### \$65 per person/Event # 044

Two complimentary beverages will be provided, and a cash bar will be available throughout the evening.







The meeting place to learn, engage and recharge!



### **Featuring:**

- An educational theater providing C.E. credits
- Cool and new products
- Internet Café and Wi-Fi lounge
- C.E. Pavilion

# Experience it.

San Francisco

Moscone South

### **Frequently Asked Questions**

### Is there an advantage to registering online?

Yes! When you register on cdapresents.com, you will be able to secure an immediate spot in any available ticketed course. You will also receive a confirmation number upon completion. Registrations received via mail or fax must be processed in the order they are received, and they do not secure an immediate spot in courses.

### When will I receive my badges?

You will receive your advance registration materials at least two weeks prior to the meeting if you register by the Aug. 17 preregistration deadline. (Note: Badge mailings will begin mid-July.) This includes registrations completed via the Internet, fax or mail. If you are a CDA member, membership dues must be paid for the current year to complete your registration.

### How do I correct a misspelled badge?

Fax a copy of the badge to 877.714.3184 with the correction by **Aug. 23, 2011**. You can also go to Badge Correction onsite at the Moscone South Convention Center.

### What if I lose my badge?

There is a \$10 on-site badge replacement fee. Replacement badges can be acquired at the Badge Correction Booth in the on-site registration area.

# What if I have questions or concerns regarding registration?

Call CDA's Contact Center toll-free at 800.232.7645 or visit cdapresents.com.

### What is CDA's cancellation policy?

Cancellations must be made in writing and postmarked no later than Aug. 23, 2011. All requests should be mailed to the address on the registration form and include any badges or tickets. After Aug. 23, 2011, refunds will not be given.

### What do I need to bring to register on-site?

A photo I.D. and, if applicable, your ADA card, student I.D. or Dental Board auxiliary license. See the Preliminary Program for the appropriate on-site registration fee.

# Can allied dental health professionals register without a dentist?

Yes, CDA welcomes ADHPs. Registration fees will apply, as listed in the Preliminary Program.



# How do I receive C.E. credit for attending a course?

Visit cdapresents.com or refer to the Preliminary Program for details on obtaining C.E. credit.

### How can I contact someone attending the show?

CDA will have an electronic message center available in the Internet Café or The Spot for attendees to retrieve email, check phone messages, and send and retrieve electronic messages to and from attendees.

## How can I get restaurant information or make reservations?

There will be a restaurant desk in the Moscone South Convention Center lobby to answer your questions and assist you with making reservations.

### Will there be a coat/baggage check available?

A coat/baggage/stroller check will be available near the registration area for \$2 per item. Please note: Strollers are not allowed on the exhibit floor.

# Are children permitted in the exhibit hall and lectures?

For the safety and convenience of all attendees, children 10 or younger will only be permitted in the exhibit hall from 9:30 a.m. until noon. CDA provides a wonderful child-care program at the Marriott Marquis. Children are not permitted in the lectures or workshops, and strollers are not permitted on the exhibit floor.

### I need special assistance to be able to attend the show. How do I request help?

If you or someone in your group requires special assistance to fully particiapte in CDA Presents, please call CDA at 916.554.4949.

CDA Presents will feature more than 400 exhibiting companies showcasing the latest in dental technology, products and services. Stay ahead of the curve by exploring the innovative new products being launched in the exhibit hall.

Thursday-Saturday Sept. 22-24, 2011

Visit cdapresents.com to maximize your tradeshow experience.

Grand Opening Thursday, 9:30 a.m.

Exhibit Hall Days and Hours Thursday, 9:30 a.m.-5:30 p.m. Friday, 9:30 a.m.-6 p.m. Saturday, 9:30 a.m.-4:30 p.m.

Family Hours
Daily, 9:30 a.m.-noon

Registration Hours Thursday, 6:30 a.m.-5:30 p.m. Friday, 6:30 a.m.-6 p.m. Saturday, 6:30 a.m.-4:30 p.m.



### **Exhibitor Listing**

3M ESPE	1426	CareCredit	1017	Doc's Duds	618
A. Titan Instruments	2225	Carestream Dental	1414	Doral Refining Corp	1409
Accutron Inc	1012	CariFree	939	DoWell Dental Products	521
Acteon North America/Satelec	1726	Carl Zeiss Meditec	803	Dr. Fresh Inc	1040
A-dec	1108	CDA Endorsed Programs	802	East West Bank	527
ADM, a.s		CDA Foundation		Easy Dental	
Air Techniques Inc		CDA Practice Support Center		Elavon	
ALCO Professional Supplies		CDA Publications		Ellman International	
AllPro		CDA Well-Being Program	516	Endo Technic	1604
Almore International Inc		Centrix Inc		Engle Dental Systems	1615
AMD LASERS	2406	ChaseHealthAdvance		Essential Dental Systems	
American Eagle Instruments		ClearCorrect Inc.	402	EXACTA Dental Direct	
American Express OPEN		Clinician's Choice Dental Product		ExecTech	1927
Anatomage		Cochran Dental		<b>Expanded Functions Dental Assis</b>	
Anthem Blue Cross	2218	Colgate		Association	
Aribex Inc		Coltene/Whaledent Inc		EZ 2000 Inc	
Army Health Care		Columbia Dentoform		E-Z Floss	
Aseptico		Common Sense Dental Products		First Choice Dental Products	
Ashtel Dental		Cosmedent Inc		Flight Dental Systems	1931
Associated Dental Dealers		Cowsert Dental		Forest Dental Products	
ATS Dental		Cranberry		Garfield Refining Company	1306
Back Designs/Salli Systems/		Creative Solutions		Garrison Dental Solutions	
Health By Design		Crest Oral-B		GC America Inc	
Banc of America Practice Solution		Crown Seating		Gendex Dental Systems	
Bank of the West		CRYSTALMARK Dental Systems		Glidewell Laboratories	
Beaverstate Dental Systems		CustomAir		Global Dental Relief	
BeeSure		Custom Earpiece		Global Surgical Corporation	
Belmont Equipment		Danville Materials/Engineering		Glove Club	
Benco Dental		Datacon Dental Systems		GoldBurs.com/DiaGold	
Best Instruments USA		Delta Dental		Golden Dental Solutions	
Beyes Dental Canada		Demandforce9		Good Time Attractions	
Big Buzz Brands		Den-Mat Holdings LLC		Great Lakes Prosthodontics	
Bien-Air Dental		Denovo Dental Inc		Handpiece Express	
Bioclear Matrix System by		Dental Anywhere		Hands on Training Institute	
Dr. David Clark	2233	Dental Equipment Specialists		Hartzell & Son, G	
BIOLASE Technology Inc		Dental Health Products Inc		Hayes Handpiece	
Biotec Inc.	1725	Dental Learning Centers		HealthFirst Corporation	
Bisco Dental Products		Dental Products Report		HEINE	
Bosworth Company		Dental Technology Consultants		Henry Schein Dental2102, 22	
BQ Ergonomics LLĆ	629	Dental Tribune America		Henry Schein Professional Practic	
Brasseler USA		Dental USA Inc.		Transitions	0010
Brewer Design	1707	DentalEZ Equipment	1026	Heraeus	1316
Bright Now! Dental —Smile Brands		DentalEZ Group		High Q Dental	
Burkhart Dental Supply	1336	Dentalree.com		High Speed Service	1326
BYF Dental Enterprise		DentalXChange — EHG	918	Hiossen Inc	
Cadwell Therapeutics Inc		Dentech Corporation — Alliance H		Hu-Friedy Mfg. Co. LLC	
California Academy of General		Denti-Cal		Hunter Dental Supply	
Dentistry	2235	Dentrix — Henry Schein Practice		Hygiene Direct	
California Bank & Trust		Solutions		ICW International	
California Dental Arts	728	DENTSPLY International	1402	ImageWorks	2226
California Dental Assistants		Dent-X	2226	InfoStar	
Association	410	Desco		InsidersCircle.com	
California Dental Hygienists'		Designs for Vision Inc		Instrumentarium/Soredex	
Association		DEXIS Digital X-Ray		Integrated Dental Design	
California Dentists' Guild	726	Diatech		Interactive Diagnostic Imaging	
CamSight Co. Inc		Digital Doc LLC		Invisalign	
Capital Performance Advisors		Discus Dental LLC		iSmile Dental Products	
CapitalSource		DMG America		Isolite Systems	
				•	

iTero	608	PBHS Inc	1939	SockIt! Gel	2229
Ivoclar Vivadent Inc		PDT Inc./Paradise Dental		SolmeteX	707
J. Morita USA Inc	722	Technologies	2136	Space Maintainers Laboratory	1312
J. Rousek's GiggleTime Toy Co	1701	Pearson Dental Supply		SS White	1407
JS Dental Mfg. Inc		Pelton & Crane		Staples Advantage	
KaVo Dental		Pentron Clinical		StarDental	
Keating Dental Arts		PeriOptix Inc.		Sultan Healthcare	
Kerr Corporation		PHB		Suni Medical Imaging Inc	
Kettenbach		Philips Sonicare		Sunstar Americas	
Kilgore International Inc		PhotoMed International		SurgiTel/General Scientific Corp	
Kodak Dental Systems		Plak Smacker		Suvison Business Services	
Komet USA		Planmeca USA Inc		SW Gloves	
Kuraray America Inc		Porter Instrument Company		SybronEndo	
L.A.K. Enterprises Inc.		Porter Royal Sales		Symphony Metals	
Lancer Orthodontics Inc.		Premier Dental Products Compar		TDIC80	2. 1525
Lares Research		Preventech		TeleVox	
Lester A. Dine Inc.		Preventive Dental Specialties		Tess Oral Health	
LumaDent Inc.		PreXion Inc		The Kohan Group	
MacPractice Inc		Professional Practice Sales		TopDentists.com	
Maddox Practice Group		Professional Sales Associates Inc		TotalCare	
Marrott Dental		Progeny, a Midmark Company		Triodent Corporation70	
Marus Dental		Proma Inc		Trojan Professional Services	
Maxdent Dental Suppy		Prophy Magic		U.S. Bank	
Maytex Corporation		Prophy Perfect		UCSD Student-Run Free Dental Clin	
McKenzie Management		ProSites Inc		UCSF School of Dentistry	
Medelita		Pro-Tex International/Snore Guar		Ultradent Products Inc.	
MedicTalk DentForms Software		Pulpdent Corporation		Ultralight Optics501, 83	
		PureLife Dental		United States Dental Tennis	1, 2312
Metalift Crown & Bridge Remova				Association	400
System		Q-Optics & Quality Aspirators			
Microcopy	2010	Quantum Inc		University of the Pacific, Arthur A. I	
MicroDental, a DTI Laboratory		Quantum Products		School of Dentistry	
Microflex		Quintessence Publishing Co. Inc.		Upholstery Packages & Services	
Micro-Mega/USA		R & D Services Amalgam Separat		USC Ostrow School of Dentistry	
Midmark Corporation		RAMVAC		ValuMax International	
Miele Inc		RF America		Vatech America	
Milestone Scientific		RGP Inc.		VELscope — LED Dental Inc	
Miltex		Ribbond Inc		Viade Products Inc.	
MIS Implants Technologies Inc		RJC Products		Vident	
Mitchell & Mitchell Insurance Age		RNO Sales Associates		Video Dental Concepts	
Modular and Custom Cabinets .		Rocky Mountain Dental Conventi		VisiCom	
MyRay — Cefla Dental Group		Roque Orthodontic Laboratories.		VOCO America Inc	
NETIP Dnetal Technologies		Rose Micro Solutions		Warren's Professional Service	
Nevin Labs		Royal Dental & Porter Instrument C		Water Pik Inc	
NewTom		Sacramento Dental		Wells Fargo Practice Finance	
Nobel Biocare		Safetz Eyewear		West Coast Precious Metals Inc	
Onpharma		Schumacher Dental Instruments		Western Dental Services Inc	
OralDNA Labs Inc		SciCan Inc.		Western Practice Sales	
OraPharma		Scott's Dental Supply		Westridge Builders/JOA Constructi	
Orascoptic		SDI (North America) Inc		White Towel Services	
Ortho Classic		Second Story Promotions		XDR Radiology	
Ortho-Tain Inc.		Septodont Inc.		xyWater	
OSHA Review Inc.		SharperPractice		Yaeger Dental Supply	
PACT-ONE Solutions		SheerVision Inc		Yodle	
Palisades Dental		Shofu Dental Corporation		Zila, a TOLMAR Company	1609
Panadent Corporation		Sikka Software Corporation		Zimmer Dental	1731
Panoramic Corporation		Sirona Dental Systems			
Parkell Inc.		Smile Reminder			
Patterson Dental	1126	Snap On Optics	520		





# **Dentist-Technician** Collaboration in the Digital Age: Enhancing **Outcomes Through** Photography, Teamwork, and Technology

TODD R. SCHOENBAUM, DDS, FAGD, AND YI-YUAN CHANG, MDC

**ABSTRACT** The cornerstone of a strong and successful dentist-technician relationship is communication. High-level collaboration across distances requires modern technology to communicate expectations, potential outcomes, and limitations. Carefully calibrated digital photography is an essential element in this inherently artistic process. This ensures a system of checks and balances to minimize the potential for miscommunication and remakes. Forthcoming technologies will allow dentist-technician teams to reach ever-greater levels of collaboration.

Todd R. Schoenbaum, DDS, FAGD, is assistant clinical professor at the University of California, Los Angeles, Division of Restorative Dentistry, and assistant director of UCLA's Continuing Education. He is on faculty in the UCLA Center for Esthetic Dentistry and maintains a private practice within the UCLA faculty group dental practice.

Yi-Yuan Chang, MDC, is a 2001 graduate from Louisiana State University School of Dentistry in New Orleans with a bachelor's degree in dental technology and from the University of California, Los Angeles' master dental ceramist program in 2003. He currently serves as assistant director and teaches various porcelain layering hands-on course.

t the core of all strong dentisttechnician relationships lies a foundation of mutually shared goals. Both parties involved must possess the same desire for excellence and the willingness to make it happen. It has long been acknowledged that restorative dentistry inherently involves teamwork between the dentist and technician, and, as our profession continues to evolve, communication via digital mediums is fast becoming the go-to method.1 Treatment decisions can be made or changed with both parties reviewing the same set of data at different locations (FIGURE 1). With the right attitude, skill, and training, digital technology can greatly enhance the outcomes of the dentist-technician team.2

Too often the extent of communication between dentists and technicians is the weak link in the restorative process. Dentists are often guilty of quickly jotting down a few notes about the case, a shade, and everything gets thrown in a box to be shipped to the laboratory. Technicians are then pushed to make do with what they get. In the end, nobody is satisfied by the result and the patient ends up with an inferior restoration.

This scenario is all too common, and though many of us have adapted ways to make it work, it does not deliver the best quality of which we are capable. We have managed with this system because it is what we are taught, and it is all we have known. Though it



FIGURE 1. Even when separated by significant distances, high-level communication is possible between the dentist and technician through dedicated implementation of photography, video, and software. Here, the ceramist and the dentist discuss the soft-tissue esthetics of a case while viewing identical images.



FIGURE 2. A portable digital dental office consists of a digital SLR with macro lens and dual-point flash, photo printer, and a laptop computer with imaging software.



FIGURE 3. When possible, it is advisable for the ceramist to take the photo survey themselves, within their laboratory. This ensures full control over the lighting and a familiar environment in which the ceramics will be fabricated. When the patient is unable to visit the laboratory, the dentist or auxiliary must take the appropriate photo survey and email it to the technician or upload it to a secure collaboration website.



FIGURE 4. A modern dSLR camera equipped with a macro lens, dual-point macro flash, and bracket. This camera (Canon 7D) is also capable of recording HD video when needed.

may work for straightforward posterior single units, something much better is needed as the treatment complexities and esthetic demands increase.

The keystone of stronger dentisttechnician relationships is communication.3 An open and honest, two-way line of communication will result in better information, better preparations, and better restorations. The dentist should utilize the expertise and experience of their technicians to their advantage, but be open to hearing what is needed to improve the result going forward. Ultimately, the highest quality results require clear information, honest communication, skill, and a mutual respect between the dentist and the technician.

Digital technology (FIGURE 2) (i.e., photography, email, digital models, digital prescriptions, and collaboration software) empowers dentists and technicians to create the work that is the best of their capability, within a

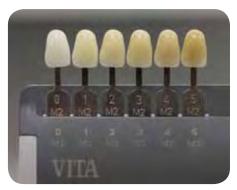


FIGURE 5. The LinearGuide 3-D shade guide is wellsuited to dental shade photography due to its use of cards that allow multiple shade tabs to be held in alignment simultaneously.

process that is more enjoyable to both parties. Digital communication allows dentists and technicians the opportunity to make decisions quickly and concisely before, during, and after treatment. The increased potential will greatly benefit dental practices and laboratories of all styles and sizes.



FIGURE 6. It is imperative that the shade tabs be placed parallel to, and in the same A-P plane as, the teeth being matched. It is the preference of the authors to have the shade tabs aligned cervical to incisal as shown.

### **Digital Photography**

Digital photography is the fastest and most effective way to start using digital technology to increase communication.4-6 In practice, the dentist, assistant or ceramist takes a baseline or comprehensive images survey and uploads these to the technician (FIGURE 3). Most email systems, as of 2011, will easily allow emails up to 10MB at a time. Multiple emails can be sent if all the images do not fit within 10MB. Images can also be uploaded via a secure FTP server or through an online collaboration website. The technician can then bring their expertise and experience to the dentist to make suggestions and comments about the course of treatment. This is extremely valuable for esthetic cases, where the preparation designs, teeth involved, and material selection can make all the difference between success and failure. The technician can also help the dentist determine if the patient desires are in fact possible. This can be very useful in determining how to treat a case, which cases not to treat, and which cases may require additional procedures (i.e., surgery, orthodontics, endodontics) to complete satisfactorily.

When developing an image series, it is important for the dentist and technician to communicate with each other to find a balance between the images needed for the diagnosis and treatment planning and the time required to take them. To ensure consistency, it is important to determine a stringent calibration protocol for the images.

The following points are the authors' standard operating procedures for diagnostic images:

- Photographs are to be taken with a dSLR camera with a 100 mm macro lens and dual point flash (FIGURE 4).
- The teeth are to be dry and free of debris, saliva, blood, etc. While being careful not to desiccate the teeth,



FIGURE 7. A dual-point macro flash system allows each flash head to be positioned further away from the axis of the lens which enhances the fidelity of the image. This is essential in photographing anterior teeth to capture the subtleties of chroma, surface anatomy and translucency. The flash heads can also be moved in close to the lens axis, useful for posterior mirror images.



FIGURE 8. Though easier to use for posterior and mirror images, the ring flash is not well-suited to the demands of matching anterior teeth. The reason for this deficiency is due to the flash proximity to the central



FIGURE 9. When utilizing photography for the purposes of matching anterior teeth, it is important that the specular highlights (white reflection areas) cover as little of the incisal half of the tooth as possible. The specular highlights should be kept in the gingival portion of the tooth to avoid masking the characterization of the incisal edge. This can be accomplished by placing the flash heads slightly above the lens axis.

it is important to remove any saliva that may mask critical information.

- All mirrored images are to be flipped to proper L-R orientation. Consistency here helps to avoid any confusion on which teeth are which.
- The VITA 3-D shade system (Master or LinearGuide) (FIGURE 5) is to be used. This shade guide was selected because it matches the shade system of the ceramic being used by the author and because of its clinical efficiency. Ceramists using a non-Vita ceramic system should advise their doctors on the appropriate shade guide to use.
- The shade tabs are to be aligned cervical to incisal in the same plane as the teeth being matched (FIGURE 6).
- The shade images are to be shot in RAW format. This allows for consistency across cameras even with small variations in lighting and settings.
- JPEG format is acceptable for all nonshade images. RAW is unneces-

- sarily cumbersome for most nonshade images when calibrated JPEG setting are used consistently. Full-size JPEGs retain all the resolution of the RAW image, though they don't allow for as accurate color corrections.
- A dual-point flash system (FIGURE 7) is to be used for all anterior images. Dualpoint flashes positioned out from the lens horizontally reveal line angles, translucency, and surface texture better than any current alternative. An adjustable bracket is helpful to properly place the flash heads depending on the image being taken.
- A ring flash (FIGURE 8) is acceptable for the baseline posterior image survey and occlusal images. Though easier to use, the ring flash is best reserved for posterior, mirror, and surgical photos. The light source is positioned too close to the lens axis to fully capture esthetic details.
- The specular highlights should be limited to the middle and gingival third of the teeth (FIGURE 9). If these

bright white reflections fall on the incisal third of the tooth, it is impossible for the ceramist to see the very information the shade photo was attempting to capture. The position of the highlights is affected by the camera position, the flash head position, and the anatomy of the teeth. The specular highlights can be moved gingivally by shooting from a slight superior angle or by repositioning the flash heads slightly above the lens.

- All JPEGs are to be taken with calibrated white balance setting. Most SLR cameras have a function to set a custom white balance. This is done by taking a photo of a photographic gray card under the exact same setting and flash setup in which the camera will be used. The custom white balance is then set to that image.
- The magnification and aperture settings can be adjusted slightly as needed. Not all mouths are the same size, and occasionally the magnification setting needs to be slightly altered. The aperture can also be varied depending on preferences (i.e., f/22f/45 is acceptable when f/32 is indicated).
- The magnification settings are based on the 1.5-1.6x crop sensors found on most digital SLR cameras. SLR cameras labeled as full frame (i.e., Canon 5D, Nikon D700) would use the settings below divided by 1.6 or 1.5, respectively.
- The macro lens needs to have a focal length of 85 mm-105 mm. Lenses shorter than 85 mm will tend to produce barrel distortion of the image and require the camera to be so close to the mouth that much of the flash lands on the cheeks.

The authors' image survey criteria: The CS Baseline Posterior Image Survey (FIGURE 10)

(For posterior units in a nonesthetic area)

- Retracted shade image (RAW, 1:3) magnification, f/32)
  - Occlusal quadrant image (JPEG, 1:3



FIGURE 10. CS baseline posterior image survey. The authors use a small but concise image survey for isolated posterior units consisting of shade image that includes relevant shade tabs from the LinearGuide 3-D, preop occlusal image to convey staining and characterization, and prep image.



FIGURE 11. CS baseline anterior image survey. The authors have determined that these six images are required for anterior cases with limited change to form and function. These are the minimum images required to convey the needed information to the ceramist when the patient cannot be physically present in the laboratory.

magnification, f/32)

■ Prep image (JPEG, 1:3 magnification, f/32, for all ceramic materials)

The CS Baseline Anterior Image Survey (FIGURE 11)

(For anterior units with minimal change of form and function)

- Full face (JPEG, 1:15 magnification, f/8)
- Retracted center position (JPEG, 1:3 magnification, f/32)
- Fricative ("F") position in profile (JPEG, 1:3 magnification, f/32)
- Retracted close-up with contraster (JPEG, 1:1.5 magnification, f/32)
- Retracted shade image (RAW, 1:3 magnification, f/32)
- Prep image (JPEG, 1:3 magnification, f/32, for all ceramic materials)

The CS Comprehensive Image Survey (FIGURE 12)

(For all cases expected to include significant changes to form, function or overall esthetics)

- Full face (JPEG, 1:15 magnification, f/8)
- Lips in repose ("M") position (JPEG,

1:3 magnification, f/32)

- Maximum smile ("E") position (JPEG, 1:3 magnification, f/32)
- Fricative ("F") position in profile (JPEG, 1:3 magnification, f/32)
- Retracted shade image (RAW, 1:3) magnification, f/32)
- Smiling center (JPEG, 1:3 magnification, f/32)
- Smiling left lateral (JPEG, 1:3 magnification, f/32)
- Smiling right lateral (JPEG, 1:3 magnification, f/32)
- Retracted center (JPEG, 1:3 magnification, f/32)
- Retracted left lateral (JPEG, 1:3 magnification, f/32)
- Retracted right lateral (JPEG, 1:3 magnification, f/32)
- Retracted center with contraster (JPEG, 1:1.5 magnification, f/32)
- Retracted left lateral with contraster (JPEG, 1:1.5 magnification, f/32)
- Retracted right lateral with contraster (JPEG, 1:1.5 magnification, f/32)

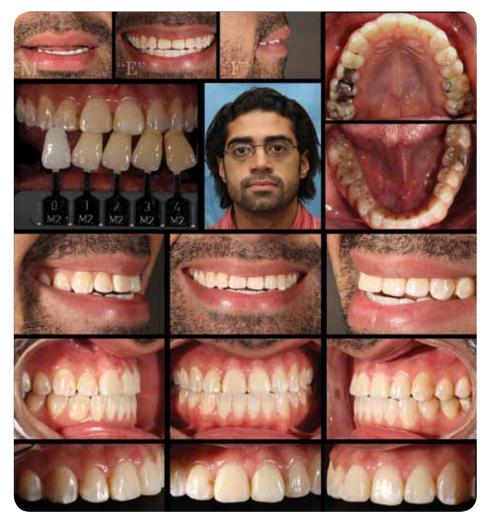


FIGURE 12. The CS comprehensive image survey is a standardized preoperative diagnostic series that provides all needed photographic information to properly diagnose and treatment plan complex cases based on the esthetics and function of the teeth and soft tissues. The phonetic (M, E, and F) images at the top can be supplemented with video.

- Maxillary occlusal (JPEG, 1:3 magnification, f/32)
- Mandibular occlusal (JPEG, 1:3 magnification, f/32)
- Prep image (JPEG, 1:3 magnification, f/32, for all ceramic materials)

Most of the newer SLR cameras are also equipped with a video feature (FIGURE 13). Video provides the technician with even more data than the photographs and can generally be taken in the same amount of time as the photographs.7 The authors have found this to be particularly helpful with the dynamic images of the soft tissue (M, E, and F positions). Video fully captures the movement of the soft tissue in relation to the teeth. Video capture of the M, E, and F positions prevents the common error of taking the picture at the incorrect time, resulting in incorrect diagnosis of display at rest, maximum display, and A-P position of the incisal edge. Some technicians also appreciate a full-face video of the patient saying their name and a few brief ideas about what they are expecting in the final result. This helps the technician get a "feel" for the personality and desires of that particular patient. A short video series will also provide a deeper understanding of the preoperative condition.

The settings on the camera need to be changed to record video under the ambient office lighting (there are LED light panels well-suited to video work if supplemental light is desired). The authors have found the following settings to work well for video: AWB, ISO 800, f/8, Image Stabilization on. It is also helpful to use a stabilized zoom lens with a moderate focal length (i.e., 17-55 mm) to minimize camera shake and provide more flexibility in smaller offices.

### Other Photographic Calibration Issues

Shade guide: It is important for the dentist and technician to discuss which shade guide to use. Though many dentists are most comfortable with the Vita Classic shade system, some porcelains are coded to the newer Vita 3-D shade system. Although there are cross-over tables available, it is advisable that the dentist use the shade guide matched to the ceramic that the ceramist will be using on the case. The dentist and ceramist may also find it useful to create a custom shade guide made of the actual porcelain if it is determined that the appropriate shade guide fails to adequately match the porcelain system. In such cases the ceramist would fabricate custom wedge-shaped tabs from the porcelain.

Shade images: Generally speaking, most esthetic cases will require more than one shade image. The authors have found it useful to take the following shade images:

- VITA LinearGuide 3-D value card aligned with the tooth to be matched; and
- VITA LinearGuide 3D chroma/hue card aligned with the tooth to be matched.

Photography all but eliminates one of the most confounding variables in shade matching, ambient light.8 With proper calibration, the light produced by flash units is very consistent in color temperature thus minimizing the effects of ambient light temperature fluctuations. For cases where the tooth to be matched



FIGURE 13. Many of the newer dSLR cameras are equipped with the ability to shoot HD video. This is especially useful when alterations to form and function of the anterior teeth are anticipated, as it gives a more elaborate understanding of where the teeth are positioned and the way they function with relation to the lips and perioral musculature.

contains a significant amount of translucency and characterization, it is also quite useful to take additional images underexposed by 1/2 to 1 stop. The underexposed image reveals many details not seen in the properly exposed shade images (FIGURE 14). To increase clinical efficiency, this can be done by engaging the automatic flash bracketing (AFB) option on the flash control unit. It is also critically important to check the images to ensure that the specular reflections (overexposed white areas) do not mask critical areas of the teeth to be matched and that the tongue is not placed against the backside of the teeth. The ceramist should also indicate to the dentist whether they like the tabs aligned edge to edge or cervical to edge.

Monitor Calibration: There are devices/ software that will properly calibrate the color reproduction on monitors. This can be quite valuable if the dentist and technician are seeing dramatically different results on shade photos. It is advisable that the same brand of device be used on both computers.

### **Digital Models**

As digital impression units (i.e., E4D, LAVA COS, iTero, and CEREC AC) (FIGURE 15) become more commonplace, we will see a greatly expanded ability of the dentist and technician to collaborate on everything from margin position



FIGURE 14. Even when properly exposed, the full complexity of the anterior dentition can be difficult to convey. These images illustrate just how important it is to precisely follow imaging protocol. The image on the left clearly lacks the detail of the image on the right (same patient). The primary reason for this difference is the slight under exposure of the image on the right. Other factors include proximity of the tongue and the position of the specular highlights.



FIGURE 15. Digital Impression Units and CAD/CAM devices at the University of California, Los Angeles, Center for Esthetic Dentistry: LAVA COS, iTero, E4D, Cerec.

to implant placement for full-mouth reconstruction.9 Currently it is possible for the technician to review digital models (FIGURE 16) with the dentist even before the model is made and the dies are digitally ditched. Both the dentist and the technician can review the case while viewing identical digital models that can be manipulated 3-dimensionally. Some systems even allow the users to view the models stereoscopically using 3-D glasses. Even on relatively simple cases this can save a significant amount

of time and energy, while improving the quality of the work being produced.

Digital modeling can also be used in the treatment planning and design of custom implant abutments, bars, and substructures. The technician can create the digital abutment and send the 3-D model to the dentist for verification or alteration before the milling even starts. Though not readily available at this time, future systems will be able to integrate the data from the CBCT. The preoperative treatment planning can then start with the



FIGURE 16. Dentists and technicians can now discuss case details utilizing identical virtual models in real-time. Such models can be annotated and marked

desired position of the final restorations, but account for the necessary design of the abutments and screw access, all while being based on where the bone actually is and where the implants should be placed. The profound effect of such technology will radically alter the way complex implant cases are treatment planned and greatly enhance the potential outcomes.

#### **Digital Prescriptions**

One common complaint from laboratories (after bad impressions and lack of photographs) is that the prescription is often lacking important information and/or is unreadable. Digital prescription systems will help to mitigate both of these problems by providing a checklist type of form that will help to ensure that all important decisions have been discussed and decided upon, while completely eliminating the problems associated with legibility. Digital prescriptions have already been shown to significantly reduce errors in hospital settings.10 Digital prescriptions are

already in use with the digital impression units and are being implemented into many office and laboratory management software programs as well.

#### Case Collaboration Software

One of the newest and most promising developments in the world of digital dental technology is the creation of collaboration software (i.e., Brightsquid). Such website-based software allows multiple treatment providers to review, comment, and annotate multiple types of diagnostic data (i.e., CBCT scans, radiographs, photographs, videos, and 3-D models). The beauty of such



# Embrace the Right Direction

#### **Excellence Integrity Accountability Perseverance Joy**

More than words. These values guide our day to day practice operations and interactions with patients. Thanks to the leadership of our doctors and the commitment of the support team, every patient at Midwest Dental and Mountain Dental experiences these values. Our practice opportunities are custom tailored to meet your individual needs. As flexible as each doctor's practice is, the values we offer are consistent and do not waiver. You owe it to yourself to learn more about our team and the professional rewards offered by Midwest Dental and Mountain Dental. Tell us what you need to be happy, and we'll work to make it a reality.

To learn more, contact Andrew Lockie at 715-926-5050 or alockie@midwest-dental.com. Visit us on-line at www.midwest-dental.com or www.mountaindental.com.

\*All inquiries are kept confidential.





systems is that the collaboration effort can include all providers involved with the case, and unlike email it provides a centralized, HIPAA-compliant area for the discourse to occur. For example, preoperative diagnostic images, videos, and radiographs are posted by the restorative dentist. The surgeon and technician for the case are given access to the file and can make comments and recommendations about the treatment during the planning stages and upload the CBCT dicom file. A finalized treatment plan is developed by all three team members before the

case is presented to the patient. When the treatment begins, all involved providers have already contributed their expertise to the case resulting in better treatment with fewer surprises.

#### Conclusion

The ability to consistently deliver esthetic restorations at the highest level demands that the communication between the dentist and the ceramist be accurate, efficient, and precise. Digital technology has completely reshaped the abilities of the dental team to communicate across distances at a level that was

previously only possible when all members of the team practiced within the same physical location. Clear communication through digital media helps to create teams that are productive, satisfied, and performing to the absolute best of their abilities. Digital technologies will continue to evolve at a rapid pace resulting in previously unimaginable results and efficiencies of the entire dental treatment. The most successful dental teams of the future will undoubtedly be built upon a strong sense of collaboration making full utilization of these digital technologies.



### MADDOX PRACTICE GROUP

was created to meet the critical demand for strong, ethical, and professional leadership in the dental transition business.

Dr. Maddox's broad involvement with more than 1000 dental practice transactions includes the preparation of transition documents (for example, associate and independent contractor agreements, purchase agreements, corporation and partnership agreements, and lease documents) to the review and analysis of complex dental lender agreements.

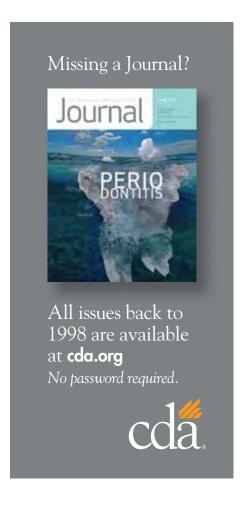
We, at MADDOX PRACTICE GROUP, look forward to assisting you with your practice transition needs.



PLEASE CALL FOR MORE INFORMATION (949) 675-5578

A. Lee Maddox, DDS, JD Broker Number - 01801165 414 31ST ST. SUITE C. NEWPORT BEACH, CA 92663

WWW.MADDOXPRACTICEGROUP.COM



#### REFERENCES

1. Porter CG, Patient, dentist, laboratory technician – a cooperative triumvirate. *J Prosthetic Dent* 5(6):732–8, 1955.

2. Schleyer TK, Digital dentistry in the computer age. *J Am Dent Assoc* 130(12):1713-20, 1999.

3. Derbabian K, Chee WWL, Simple tools to facilitate communication in esthetic dentistry. *J Calif Dent Assoc* 31(7):537-43, July 2003.

4. Derbabian K, Marzola R, Arcidiacono A, The science of communicating the art of dentistry. *J Calif Dent Assoc* 88(2):79-85, February 1998.

5. Gallegos AG, Enhancing interprofessional communication through digital photography. *J Calif Dent Assoc* 29(10):752, 2001, October 2001.

6. Christensen GJ, Important clinical uses for digital photography. *J Am Dent Assoc* 136(1):77-9, 2005.

7. Sackstein M, A digital video photographic technique for esthetic evaluation of anterior mandibular teeth. *J Prosthet Dent* 97(4):246-7, 2007, April 2007.

8. Lee YK, YuB, et al, Perceived color shift of a shade guide

according to the change of illuminant. *J Prosthet Dent* 105(2):91-9, 2011.

9. Touchstone A, Nieting T, Ulmer N, Digital transition: the collaboration between dentists and laboratory technicians on CAD/CAM restorations. *J Am Dent Assoc* 141(suppl\_2):15S-19S, 2010.

10. Bizovi KE, Beckley BE, et al, The effect of computer-assisted prescription writing on emergency department prescription errors. Acad Emerg Med J 9(11):1168-75, 2002.

#### TO REQUEST A PRINTED COPY OF THIS ARTICLE, PLEASE CONTACT

Todd R. Schoenbaum, DDS, FAGD, University of California, Los Angeles, School of Dentistry, Continuing Dental Education, Box 951668, Room A0-121 CHS, Los Angeles, Calif., 90095.



# Your dentistry is only as good as its foundation.



# Discover how to build your foundation with The Dawson Academy.

Join us in **Anaheim**, **CA** this year and learn how to build the perfect foundation with every patient, from the single tooth to the complex case. For complete details on this course and others, please contact us at at **1.888.376.0873** or visit our website at **www.TheDawsonAcademy.com/California** for more details.

CALL 1.888.376.0873 TO RESERVE YOUR SEAT FOR THIS IMPORTANT LECTURE

# FUNCTIONAL OCCLUSION-FROM TMJ TO SMILE DESIGN OCTOBER 27-29 THURS - SAT

Sybron Learning Center, Anaheim, CA



ANCHORED IN INTEGRITY ▲ DEVOTED TO EXCELLENCE ▲ FOCUSED ON RESULTS

www.TheDawsonAcademy.com/California



# The Relationship Between **Dentists and Dental** Laboratories — Predictions for the Future

BENNETT NAPIER, CAE

**ABSTRACT** This article provides an overview of the key market changes that are impacting the day-to-day relationship between dentists and dental laboratories and technicians. There are a variety of factors that facilitate the need for broader communication between dentists and dental technicians.

Bennett Napier, cae, has served as coexecutive director, National Association of Dental Laboratories and its affiliate, National Board for Certification in Dental Laboratory Technology. He also has served as executive director of the Florida Dental Laboratory Association and the Florida Dental Hygiene Association and is a past president of the Tallahassee Society of Association Executives and the Florida Society of Association Executives.

ccording to the U.S. Department of Labor, Bureau of Labor Statistics, there are more than 10,000 dental laboratories in the United States and 33,600 dental technicians. These numbers represent a 20 percent consolidation of both categories in the last two years. The market changes are a result of a number of factors: the economic downturn, competition from offshore dental laboratories, increased capital costs to operate a dental laboratory and natural attrition due to an aging technician workforce. Over the next 10 years, it's predicted that the number of U.S. dental laboratories could plateau at 7,000.

This shift in the domestic dental laboratory market is happening at a time when according to the U.S. Centers for Medicare and Medicaid, the demand for dental services is predicted to increase in the United States from \$87 billion in 2005 to \$167 billion by 2015.2 The ability of dentists to work with qualified dental laboratories domestically is paramount to good patient care.

The rapid change taking place in the dental laboratory industry has resulted in different skills for a dental technician. Recruitment of individuals into the profession now includes graduates of computer-imaging schools, computeraided design/computer-aided manufacturing (CAD/CAM) light manufacturing vocational schools, and medical device technicians. There remains a need to recruit professionals with a strong artistic flair. These new skill sets are vastly different, even from just 10 years ago. With the increasing demand for dental services, the U.S. Department of Labor predicts the domestic technician workforce will begin to go up from current levels at 5-7 percent per year through 2015.3

It's important to note some of the key factors that are impacting the dentist/dental laboratory relationship:

■ The U.S. Food and Drug Administration import trade data from 2010 for the dental laboratory industry classification code indicates that \$1.32 billion in dental laboratory-related sales was fulfilled by foreign dental laboratories. That represents 20 percent of U.S. sales and nearly 40 percent of actual restorations. Keep in mind that a portion of that work is shipped direct by large dental group practices and some U.S. dental schools.4

- Opening a dental laboratory in today's market can require a minimum capital investment of \$200,000. In the early 1990s, one could open a dental laboratory for less than \$20,000.
- The number of active ADA-accredited dental laboratory technology programs at community colleges and universities has declined 62 percent since 1992.5
- Dental implants and digital impression systems, although a small piece of the restorative market, are growing at 15-17 percent annually. The complexity of implants and the communication bridge that digital impressions provide require an enhanced service level interface between dentists and dental technicians.6

#### **Technical Training and Competency**

Since the 1970s, more than 27,000 dental technicians have graduated from formal dental laboratory technology schools. The number of ADA-accredited programs in the United States can now produce a graduate class of only around 300 students annually.5

Reversing the trend of school closures is extremely important as in order to be successful in the dental relationship, a comprehensive foundation of knowledge is necessary, now more than ever. This is especially true when one considers that dental schools teach almost no clock hours in dental laboratory technology. This divide is exacerbated by the fact that in many states, more laboratory-related duties in the clinical setting are delegated/relegated to dental assistants or hygienists that also rarely have training in laboratory technology.7

The proliferation of technology, both in terms of dental materials and equipment in dentistry and even more on the laboratory side, makes it crucial that there is open and consistent communication between the dentist and dental technician. Dental technicians by and large work closely with dental manufacturers on the development of new restorative materials, as well as the capital equipment that allows manufacturing of the substructure or the full restoration to meet the dentist's need for the patient. Due to this dynamic, technicians are poised to offer dentists

#### THE NUMBER OF

ADA-accredited programs in the United States can now produce a graduate class of only around 300 students annually.

expert guidance on material selection and help filter through the sales pitch on which brand is best to meet the patient need.

The advent of digital impression systems has markedly improved the restorative outcome. In study after study, the detail of the digital file has facilitated both a better restoration and turnaround time.8 Remake percentages typically go down significantly both for the dentist and dental technician. This saves chairtime and improves patient satisfaction. As this technology becomes commonplace, the working relationship between dentists and dental technicians will allow for increased production capacity. This is opinion based on the fact that when dentists use digital impression systems the remake percentage drops by 2-3 percent. This reinforces the premise that

the dentist will have less repeat patient visits for the same restoration and allow the practice to see different patients.

#### Regulation of Laboratories/Technicians

In a July 2008 American Dental Association survey of its members on dental laboratory issues, more than one-third of dentists believe that dental technicians and laboratories are regulated or licensed. In fact, there are no states in the United States where technicians are required to be licensed.9

Only three states mandate any baseline technical competency for technicians. Those states are Florida, South Carolina, and Texas. In these states. the baseline competency or continuing education requirements for dental technicians are based on the certified dental technician (CDT) designation administered by the National Board for Certification in Dental Laboratory Technology. This is the only recognized certifying body for dental technicians by the ADA.

This lack of state regulatory requirements has facilitated the closure of dental laboratory technology schools due to the lack of a mandated minimum competency to operate as a dental technician.

There is a move afoot in more than 12 states to seek similar regulations in state dental practice acts. It is believed that a baseline requirement for registration of laboratories and a tie to certification or competency standards for technicians is imperative for dentists. This will preserve a consistent foundation of technical training regardless of what laboratory the dentist chooses.

Dentists can and should seek to work with dental laboratories and technicians who have voluntarily chosen to verify their skills and knowledge against a national standard as a CDT or have verified their facility operating standards as a certified dental laboratory or FDA compliant, DAMAS, or ISO laboratory.

#### **Technology Advances**

The advent and development of CAD/ CAM products from companies like Sirona, 3M ESPE, Cadent, KaVo, Nobel Biocare, D4D, and others that support digital technologies for both the doctor's office and dental laboratory will help dentistry meet increasing consumer demands. These advances will also change how doctors and dental technicians communicate with each other.

With any technology, there is a length of time before the "masses" fully utilize what becomes available. With that in mind, it will likely be another five to seven years before this new technology realizes its full potential in relation to the number of possible users. It is the author's opinion that once that happens, the general dentist and the everyday dental technician will be in a new era of dental care. Much like the medical field, dentistry, and those within it, will be fully transformed into a high-tech health care profession.

The National Association of Dental Laboratories believes that to preserve the ability of dentists to work with a qualified domestic laboratory industry that several public policy recommendations should be considered:10

- 1. Support a minimum level of competency for practicing dental technicians. This can be achieved through state dental practice acts that would require "each dental laboratory in the United States to employ at least one certified dental technician" or require comparable continuing education.
- 2. Require U.S. dentists and dental schools that outsource their dental laboratory work directly to foreign dental laboratories to comply with the same Food and Drug Administration quality system/good manufacturing practice requirements with which a U.S. dental laboratory must comply. This not only ensures transparency but more importantly provides that all links in the supply chain are covered in case of raw material product recalls.

3. Support state dental practice act provisions that the dental patient has the right to know where his or her restoration was manufactured and also have access to a list of patient contact materials used in their restoration. Such information would become a part of a patient's record.

For more information on the laboratory industry and seeking out a qualified partner, the author recommends the following websites: nadl.org; nbccert. org; and dentallabfoundation.org.

#### REFERENCES

1. Source for Dental laboratory statistics: National Association of Dental Laboratories, 2010 Cost of Doing Business Survey. bls.gov/oes/current/oes519081.htm. Accessed June 7, 2011. 2. U.S. Health and Human Services, Centers for Medicare and

Medcaid, Oral Health Care Report, 2010.

3. bls.gov/oco/ocos238.htm#projections\_data. Accessed June 7, 2011.

4. U.S. Food and Drug Administration, Centers for Devices and Radiological Health, December 2011 and National Association of Dental Laboratories, Cost of Doing Business Survey, June

5. American Dental Association, Commission on Dental Accreditation, May 2011.

6. U.S. Market for Dental Prosthetics, June 2010, iDataResearch.net.

7. American Dental Education Association.

8. Market Research: Cadent Inc.

9. National Association of Dental Laboratories, Report on State Regulation of Dental Laboratories, March 2011.

10. National Association of Dental Laboratories, Model Bill for Regulation of Dental Laboratories in State Dental Practice Acts. April 2011 version.

TO REQUEST A PRINTED COPY OF THIS ARTICLE, PLEASE CONTACT Bennett Napier, CAE, 325 John Knox Road, L103 Tallahassee,





### THE LAW OFFICES OF A. LEE MADDOX, DDS

- · Lease Reviews
- · Partnership Agreements
- Practice Purchase Agreements
- · Corporation Formation/Dissolutions
- · Space Sharing Group/Solo Agreements
- Associate/Independent Contractor Agreements
- Dental Bureau Complaints/Matters
- Limited Liability Company Formation and Agreements



We, at the LAW OFFICES OF A. LEE MADDOX, DDS, look forward to assisting you with your practice transition needs.

Comprehensive & Professional Legal Services Exclusively for Dentists

TOLL FREE (888) 685-8100

414 31ST ST, SUITE C, NEWPORT BEACH, CA 92663 TEL: 949-675-1515 FAX: 949-675-1717 EMAIL: LMADDOX@CADENTALLAW.COM WEBSITE: CADENTALLAW.COM



Thanks to generous donations to the CDA Foundation, nearly 85,000 underserved Californians received oral health care in 2010, reflecting more than \$12 million in services.

The Foundation that started with a single employee and a sole purpose celebrates its 10th anniversary of transforming lives across California.

The Foundation's significant achievements include its work in community water flouridation,
CAMBRA, the development of
Perinatal Oral Health Guidelines and the Student Loan Repayment Program, which awards grants to new dentists in exchange for a commitment to provide services to underserved communities that are most in need.

# Creating smiles, changing lives.

Celebrating ten years!



Thank you to our Platinum supporters:









# Mucogingival Surgery: Where We Stand Today

VIVEK K. BAINS, MDS; VIVEK GUPTA, MDS; G.P. SINGH, MDS; AND RHYTHM BAINS, MDS

**ABSTRACT** Mucogingival problems are developmental and acquired aberrations in the morphology, position, and/or the amount of gingiva surrounding teeth. According to an academic report by American Academy of Periodontology, mucogingival therapy should be advocated for gingival augmentation and to create adequate vestibular depth in areas with insufficient attached gingiva. This paper provides an overview on mucogingival surgical procedures from its inception to the current time.

Vivek K. Bains, MDS, is a reader. Department of Periodontics, Saraswati Dental College and Hospital in Lucknow, India.

Vivek Gupta, MDS, is a reader. Department of Periodontics, Saraswati Dental College and Hospital in Lucknow, India. G.P. Singh, MDS, is a professor, Department of Periodontics, Saraswati Dental College and Hospital in Lucknow, India.

Rhythm Bains, MDS, is a senior lecturer. Department of Conservative Dentistry and Endodontics, Saraswati Dental College and Hospital in Lucknow,

ucogingival problems include an array of clinical findings such as gingival recession, shallow vestibular depth, inadequate width of attached gingiva and aberrant frenulum.1 The term "mucogingival surgery" introduced by Friedman includes surgical procedures designed to preserve attached gingiva, to correct aberrant frena or muscle attachments, and to increase the depth of vestibule. The term now is replaced by "mucogingival therapy," which is a broader term that includes both nonsurgical and periodontal plastic surgical procedures for correction of defects in morphology, position, and/or the amount of soft tissue and underlying bone support for teeth and implants.<sup>2-6</sup>

#### Method

The dental literature was searched with Medline/PubMed/Google search for the years 1966 to 2009 with an emphasis on peer-reviewed dental journals. MeSH terms used were "mucogingival therapy," "mucogingival surgery," "attached gingiva," "shallow vestibule," and "aberrant frenum attachment." Common textbooks on periodontology and periodontal plastic surgery, bibliographies of papers, and review articles together with relevant journals were scrutinized for additional information.

#### Morphology of Mucogingival Problems

Mucogingival problems are developmental and acquired aberrations in the morphology, position, and /or the amount of gingiva surrounding teeth, and identified as early as 1924 when Kazanjian introduced techniques to deepen vestibule in edentulous patients.7,8 Gottlieb, Hirschfeld, and Gottsegen showed the frenum, a sickle-shaped fold normally found in the maxillary and mandibular alveolar mucosa, in the canine premolar area, and between the central incisors, as an etiologic factor for poor oral hygiene, food impaction, recession, and pocket formation if present aberrantly.9-13

Placek et al. described a morphologicfunctional classification of labial frenum attachment as: mucosal, gingival, papillary, and a papilla-penetrating attachment.14 An aberrant or high frenum is a problem of inadequate attached gingiva and a mandibular frenum is of no clinical significance if an adequate zone of attached gingiva is present coronal to frenum. 14-16 But a maxillary frenum may present esthetic problems or compromised orthodontic results.16

Orban was the first to define attached gingiva as stippled and firmly attached to the tooth and underlying bone.17 Later on, Bowers, Ainamo and Loe, Lang and Loe, Rose and App, and Maynard and Ochsenbein defined, studied, and discussed variations among attached gingiva in health and disease.18-22 For clinical purposes, an attached gingiva is defined as gingiva that extends from the free margin of the gingiva to the mucogingival line, minus the pocket or sulcus depth measured with a thin probe in the absence of inflammation. 16,23,24 It should have minimum width to prevent marginal retraction during facial movements, support the gingival fibers, and restorations. 15,24-28 Adequate or inadequate attached gingiva in an individual, is a clinical decision, not mathematical but can be detected by tension test.<sup>24,25</sup> For an errorless detection of a mucogingival junction, a probe is placed horizontally, flat against the mucosal surface, and slid coronally, resulting in blanching of the gingiva when the mucogingival junction is reached.15

As the alveolar mucosa has high glycogen content that gives an iodine-positive reaction, the mucogingival junction also can be visualized using Lugol's iodine solution.29 Pure mucogingival problems are a result from a tooth's eruption in prominence at or near the mucogingival junction so that little or no attached gingiva is present over the prominence of a fully erupted tooth, whereas mucogingival osseous problems are caused by periodontitis, resulting in

periodontal pockets extending beyond the mucogingival junction. 15,30 Thus, the term "pure mucogingival problem," coined in 1977 at the World Workshop in Periodontology, defines problems relating to the presence of "inadequate attached gingiva" and their treatment referred to as "pure mucogingival surgery," which may be prophylactic (to prevent recession) or therapeutic (to stop further recession or to gain attachment).15

Along with functional demand, oral esthetics represents an inseparable part of periodontal therapy. Gingival reces-

#### **ADEQUATE**

or inadequate attached gingiva in an individual. is a clinical decision. not mathematical but can be detected by tension test.

sion, defined as exposure of root surface due to an apical shift in the position of the gingiva, has been classified by Sullivan and Atkins as shallow-narrow, shallow-wide, deep-narrow and deepwide, whereas by Miller into four classes (class I to class IV).31,32 Miller further advocated achievement of complete root coverage in class I and class II recession defects however, only partial coverage is obtained in class III, and class IV cases.32

The thickness of periodontium can affect mucogingival problems and it was found that gingival units lacking attached gingiva were thinner in buccolingual dimension with a thinner keratin layer covering the oral epithelium.33 Furthermore, periodontium thickness may have different possibilities. Type

1 consists of normal or an ideal dimension of keratinized tissue and a normal or ideal labiolingual width of alveolar process. Clinically, the width of keratinized tissue is 3-5 mm, and palpation reveals a relatively thick periodontium. A sufficient dimension of attached gingiva that separates the "retractable" free gingival margin from the mobile alveolar mucosa. Type 2 has thinner keratinized tissue and normal labiolingual width of the alveolar process. Clinically, there is a minimal amount (less than 2 mm) of keratinized tissue over the facial aspect of the teeth. The subjacent bone, when palpated, seems reasonably thick. Type 3 has normal or ideal dimension of keratinized tissue and thin labiolingual width of the alveolar process. This is observed clinically as normal keratinized tissue width, but the bone is thin and the roots can be palpated. Type 4 has thin keratinized tissue (less than 2 mm) and thin labiolingual dimension of the underlying bone. With this tissue situation, there is potential for recession in the presence of poor plaque control and local trauma as the patient matures. The gingiva also tends to be thin labiolingually, favoring its throughand-through loss with inflammation.33

Cervical root defects are another common biologic indication for root coverage procedures. A shallow root defect (<1 mm), easily treated in Miller's class 1 and class 2 cases, completely covers the root surface. A moderate root defect (1-2 mm) is more difficult to treat because of the extensive amount of root reshaping that must be performed before grafting; however, excellent results can be achieved. A deep, cervical root defect (>2 mm) is the most difficult to treat as the remaining tooth is significantly weakened because of too much of the tooth structure is missing.34

#### Mucogingival Surgical Procedures

A high frenum attachment, creating a pull on marginal gingiva, is a contributing factor for recession in the presence of inflammation. A frenectomy or frenotomy is usually performed in conjunction with other periodontal treatment procedures, but occasionally are done as separate operations either conventionally using a blade and hemostat, or more recently, electrocautery or a laser. Vestibular extension operations or vestibular deepening procedures were designed mainly with the objective of extending the depth of vestibular sulcus. The earliest of the techniques used were denudation techniques, periosteal retention procedure, and an apically repositioned procedure.35-<sup>41</sup> In recent years, however, pedicle and free soft-tissue graft have become the most commonly used techniques in the management of insufficient gingival dimensions because of the higher predictability of the healing result.

Partial or complete removal of frenum alone, or in combination with a free gingival autograft, is usually performed to create a zone of attached gingiva through relocation of the frenum, thus producing a condition conducive to plaque control and proper toothbrushing. <sup>25,42-45</sup> Nabers was among the first to recognize the need for the retention of attached gingiva and advocated the repositioning of gingiva. <sup>46,47</sup> Ariaudo and Tyell modified his technique by introducing two vertical incisions for easy manipulation, and Friedman proposed apically repositioning the gingiva for the same result. <sup>2,41,48,49</sup>

Various procedures for increasing the width of attached gingiva and vestibular deepening with varying results have been described. These include (a) vestibular extension procedures using complete denudation, partial-thickness flap, mucosal stripping, or a combination of full- and

partial-thickness flap; (b) Edlan-Mejchar operation; (c) fenestration procedure; (d) periosteal retention or split-flap procedure; (e) apically positioned partial- and full-thickness flap; (f) modified apically repositioned flap; (g) use of free autogenous graft techniques; and (h) acellular dermal matrix allografts. 1,2,8,30,41,46-48,50-82

Depending on the direction of transfer, pedicle graft procedures can be classified as rotational flaps (that includes laterally sliding, double papilla, and oblique-rotated flap) and advanced

#### PEDICLE AND FREE

soft-tissue graft have become the most commonly used techniques in the management of insufficient gingival dimensions because of the higher predictability of the healing result.

flap procedures (that include a coronally positioned or semilunar coronally repositioned flap).3,83,84 With predictable root coverage and a color blend, a lateral sliding flap or a lateral-positioned pedicle graft involving a full-thickness flap was introduced by Grupe and Warren.85 It was later modified by Grupe, wherein he proposed not to involve the marginal gingiva.86 Other modifications of the procedure include the use of a split-thickness flap to minimize the risk of dehiscence, a double papilla flap using the interproximal papillae, oblique (90-degree) rotational flap, and a transposition flap.87-92 Rotational flap studies affirmed 34 percent and 74 percent root coverage, 40 to 50 percent of complete

root coverage after a laterally positioned flap when combined with various forms of root surface treatment and 2.2 to 4.0 mm increase in gingival height. 82,92-95 Others reported 60-72 percent of average root coverage with a lateral positioned flap technique.96-100 However, inadequate dimensions of gingiva lateral to recession site, a shallow vestibule, wide isolated recessions or multiple gingival recession, and high frenum attachment preclude its use.84,100,101 It also requires an adequate thickness of at least 3 mm of gingiva in an apico-coronal direction at the donor site and a pedicle dimension of about three times wider the width of uncovered root area.101,102 Anilkumar et al. reported the use of a laterally positioned flap with plateletrich-fibrin membrane, a concentrated suspension of the growth factors found in platelets for root coverage on labial surfaces of the mandibular anterior teeth. 103

A coronally positioned pedicle graft or flap is a historical technique, consists of covering denuded roots of maxillary anterior teeth by sliding pedicle flaps from an adjacent uninvolved gingiva and alveolar mucosa (FIGURE 1).25 After resection of the periodontal pockets, a mucoperiosteal flap as wide as the exposed root surface and outlined by a horizontal incision across the anterior maxilla, is elevated from the bone and divided in two by a midline V-shaped incision at the frenum so that the two flaps can move onto roots and be sutured (FIGURE 1). However, it is found to be successfully reattached to exposed roots in experimental animals only.25,104 A coronally positioned flap was developed with the purpose to eliminate periodontal pockets and to obtain the reattachment of gingiva to root surface previously denuded by disease, which may include partial- or full-thickness flap, as an alternative to lateral transposition pedicle graft. 17,106-112 This technique can

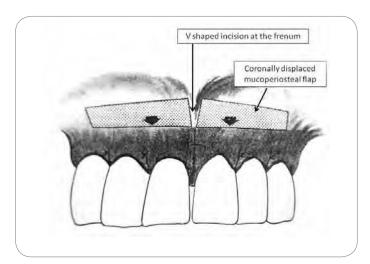


FIGURE 1. Historical technique of coronally positioned flap (Adapted from Clinical Periodontology, Glickman I, ed., fourth ed., W. B. Saunders Co.)

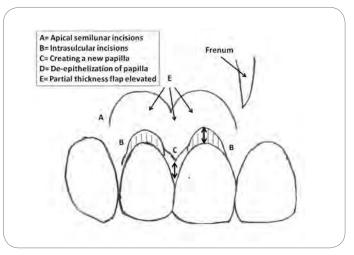


FIGURE 2. Modified semilunar flap (Adapted from Haghighat K. Modified semilunar coronally advanced flap. (J Periodontol 77:1274-9, 2006).

be employed to create a split-thickness flap in the area apical to the denuded root and position it coronally to cover the root either by coronal movement of the existent mucogingival complex or by the initial creation of gingival width by gingival graft, followed by a secondary procedure moving the complex coronally as a second-stage procedure.4,107,108,110-116 A coronally positioned flap, plus a resinmodified glass ionomer restoration for the treatment of gingival recession associated with noncarious cervical lesions, revealed greater reduction in dentine sensitivity along with soft-tissue coverage. 117

Reports suggest that on an average, 70-99 percent root coverage, complete coverage between 24 percent and 95 percent can be achieved with a coronally advanced flap procedure.82 A semilunar coronally positioned flap described by Tarnow, originally presented in 1907 by Harlan, and include a one-stage, no-suture coronally repositioned flap aiming at correcting shallow recession defects. 113,118,119 It was further modified using citric acid root conditioning in combination. 102 Haghighat introduced modified semilunar coronally advanced flap for the correction of gingival recession present on adjacent teeth by creating a new papilla<sup>119</sup> (FIGURE 2).

Margraff in 1985 devised a double

lateral bridging flap technique, which includes the combination of a coronally repositioned flap and a modified vestibulum plastic procedure, according to Edlan and Mejchar, with the goal to cover gingival recessions without increasing the zone of keratinized gingiva. 57,120 Though reports suggest 72 percent of root coverage, the literature was limited (FIGURE 3). The authors did find that Romanos et al. performed a five-to-eightyear longitudinal study and showed root denudation reduction of 75 percent or more.121 Vijayalakshmi et al., while presenting case report of two cases, showed adequate gain in attached gingiva and root coverage after six months. 122

Functional results obtained using "free gingival grafts" from epithelialized palatal tissue for the purpose of increasing the zone of attached gingiva was reported as early as 1963 by Bjorn and later on by others. 68,70-73,123-126 Several modifications of the classic technique have been proposed. These include mesh or accordion technique, strip technique, two-step technique, vertical strip technique, and one-step technique with or without root conditioning.<sup>32,105,127-138</sup> The mean percent root coverage with these techniques varied between 11-87 percent. Additionally, complete root coverage

predictability ranged from 0 to 90 percent (average 57 percent) and a clinical attachment gain of 1.6 to 5.3 mm have also been reported.82 Along with significant gain in gingival dimensions (both in thickness as well as in apico-coronal direction), free gingival graft can also be used over an extraction socket or osseous graft. 139,140

Shallow vestibule and multiple recessions do not pose any problem for the result outcome, but a shallow palatal vault, rough texture of the graft, discrepancy in color of the tissues after healing, and donor site morbidity is important consideration. 16,125,129,141 Also, the classical free gingival grafting procedure cannot offer a solution for root coverage of an area larger than three teeth. 129

Langer and Calanga described a subepithelial connective tissue graft technique to correct ridge concavities. 142 Langer and Langer were the first to report subepithelial connective tissue graft technique for root coverage of isolated or multiple recessions. 143 The graft is harvested from the palate or retromolar pad area by the use of a "trap door" approach.3 This technique has the advantage of closer color blend of the graft with the adjacent tissue, avoidance of the keloid healing, and less postoperative discomfort at the donor site. 144-146 Additionally, this proce-



FIGURE 3: Clinical photographs showing bridge flap technique: (A) preoperative; (B) intraoperative; and (C) postoperative (Courtesy: Dr. V. Gupta)

dure provides dual vascularization from both, the periosteum and the buccal flap, along with the genetic messages in the connective tissue for the keratinization of the overlying epithelium. 147,148 Its versatile use in restoring lost papillae, ridge augmentation, eliminating amalgam tattoo, or as an alternative surgical approach for epulis removal while preserving and improving mucogingival complex are the added advantages of the procedure. 144,149

Procedures that may or may not include the use of vertical releasing incisions (envelop technique), multienvelope recipient bed (pouch and tunnel) preparation or supraperiosteal envelope, subpedicle connective tissue graft technique, where a free connective tissue graft was placed under a double papilla flap and other variations, have been reported. 4.143,150-158 Highly predictable and superior esthetics, with a mean root coverage of 89 percent and complete root coverage of 20-80 percent as reported by Wennstrom, 84 percent mean root coverage by Allen, mean root coverage of 77.9 percent and 37.4 percent complete root coverage by Oates et al., and 93.8 percent mean coverage with complete root coverage in 79 percent of cases by McGurie and Nunn, provided by this technique made it the gold standard for root coverage. 82,145,154,159,160-162 Recent investigations have shown that leaving a portion of the connective tissue graft exposed resulted in a greater increase of keratinized tissue, and complete coverage of graft resulted in greater root coverage. 162 Also, histometric evaluation of the healing process of gingival recessions suggest that the combination of platelet-rich plasma with subepithelial connective tissue graft is more effective in promoting new cementum formation than the graft alone. 163

Guided-tissue regeneration technique for root coverage was reported by Pini-Prato in 1992 using nonresorbable microporous membrane. 164,165 Later, Tinti and Vincenzi used titanium-reinforced membranes to create space beneath the membrane, and used the potential of GTR technique to achieve periodontal regeneration rather than connective tissue repair to the exposed root surface. 166,167 Studies using nonresorbable guided-tissue membrane, expanded polytetrafluoroethvlene ePTFE (Gore) alone or in combination with root conditioning have been reported with varying results. 168 Placing free gingival grafts at the time of membrane removal, using titanium-reinforced ePTFE membrane for space maintenance, inserting fibrin-fibronectin between membrane and root surface alone or with root conditioning, using metal pins and miniscrews to provide space

and membrane stability are suggested modifications of GTR technique. 168-175

Similarly, studies of resorbable membranes for root coverage using a variety of materials such as collagen (BioMend or Proguide), polylactic acid (PLA, Guidor) with or without root conditioning either using an envelope, advanced or double papilla flap technique, polyglactin 910 (Vicryl) with collagen-hydroxyapatite biomaterials for wound closure have been reported. 174,176-181 Root coverage among the studies using nonresorbable membranes averaged 3.5 ±0.7 mm, clinical attachment gain averaged 4.0±0.9 mm, whereas a bioresorbable membrane showed 2.8±1.2 mm root coverage with average clinical attachment gain of about 2.5±1.3 mm. 182

Clinical results suggest the GTR technique to be better when recession is greater than 4.98 mm apico-coronally when compared with coronally positioned flap.4 However, GTR does not appear to offer a significant advantage over mucogingival procedures such as the connective tissue graft or the advanced flap procedure. 182

Although few case reports suggest new connective tissue attachment associated with new cementum formation and of bone growth, and impede apical migration of gingival epithelium, a majority of studies suggest limited regeneration of periodontal attachment when examined histologically.4,182-184 Along with various associated difficulties including primary wound closure, secondary membrane exposure, space maintenance and unacceptable foreign body reactions, GTR does not appear to offer a significant advantage over mucogingival procedures as connective tissue graft or advanced flap techniques. 182-185

Acellular dermal matrix allograft, a nonvital freeze-dried, cell-free, dermal matrix comprised of collagen bundles and elastic fibers in a structurally integrated



FIGURE 4. Clinical photograph showing influence of overlying mucosa around implant. A shows thick overlying mucosa around implant favoring better prognosis in comparison to B with thin overlying mucosa exposing the implant. (Courtesy: Dr. V.K. Bains)

basement membrane complex and extracellular matrix and originally intended to cover burn wounds, has been introduced as a less invasive alternative to softtissue grafting. 186-189 For clinical dentistry purposes, the acellular dermal matrix graft (ADMG) is obtained from human skin and used as a substitute for the connective donor tissue to increase the width of keratinized tissue around teeth or implants, the treatment of alveolar ridge deformities, root coverage procedures, increasing gingival thickness, eliminating gingival melanin pigmentation as a membrane for guidedbone/tissue regeneration, it also eliminates the disadvantages of the autogenous donor graft. 186,190-203 This material acts as a scaffold for the proliferation of epithelial cells, fibroblasts, and blood vessels from the recipient site to achieve reorganization, and requires a larger blood supply (full coverage from flap), as compared to a subepithelial connective tissue graft. 192,196

Andrade et al. compared two surgical techniques (with or without verticalreleasing incision) using ADMG and found an increased width of keratinized tissue, favoring the group with releasing incision, but equally effective root coverage for both the techniques.<sup>204</sup> Mahajan et al. reported alloderm to be significantly superior in the treatment of gingival recession than a coronally positioned flap (CPF) alone, however, in terms of cost effectiveness and patient comfort, it was found inferior to CPF.205

#### **Discussion and Concluding Remarks**

Various procedures have been described to treat different mucogingival problems. According to an academic report by the American Academy of Periodontology, mucogingival therapy should be advocated for gingival augmentation, and to create adequate vestibular depth in areas with insufficient attached gingiva.206 An increased width of gingiva independent of the number of millimeter is considered a successful outcome of augmentation procedures. Also, an increased thickness of the marginal tissue may, in certain situations, be considered as an endpoint of success. A reduction in the amount of exposed root and a reduction in root sensitivity, if attained, suffice well for any attempted root coverage procedure.

Elimination of aberrant frenum that will increase the patient comfort in maintaining good oral hygiene by helping proper placement of toothbrush will mean success for the surgical procedure done. There is an immense scope still left in the field of mucogingival surgery. Esthetic is an important endpoint determinant especially from patient's point of view. The evaluation of variables determining improvements in esthetics should be included in future clinical studies. There also needs to be the development of procedures to improve root coverage possibilities in class 3 and class 4 recessions.

As of now, implantology is increasingly becoming an inseparable part of a routine clinical practice. The presence of thick masticatory mucosa around implants is an important area of concern for clinicians to obtain its long-term success and adequate implantmaintenance (FIGURE 4). Alloplastic materials have come onto the scene and have shown promising results. Alloderm for root coverage has gained enthusiastic response worldwide but its cost effectiveness has precluded its routine clinical usage. The introduction of tissue-engineering and plateletrich fibrin have been recent advancements with good acceptability and demands further long-term clinical trials.

TO REQUEST A PRINTED COPY OF THIS ARTICLE. PLEASE CONTACT Vivek K. Bains, MDS, at doc\_vivek76@yahoo.co.in.

#### REFERENCES

- 1. Goldman HM, in Periodontia, third ed., C. V. Mosby Co, St Louis, pages 552-61, 1953.
- 2. Friedman N, Mucogingival surgery. Texas Dent J 75:358-62,
- 3. Wennstromm JL, Pin Prato GP, Mucogingival therapyperiodontal plastic surgery, in Clinical periodontology and implant dentistry, Lindhe J, Karring T, Lang NP, eds., fourth ed., Blackwell Publishing Co., Blackwell Munksgard, pages 576-649, 2003.
- 4. Takei HH, Azzi RR, Han T, Periodontal plastic and esthetic surgery, in Carranza's clinical periodontology, Newmann MG, Takei HH, et al, editors, 10th ed., St Louis, 1005-26, 2006. 5. Karima M, Introduction, in Practical periodontal plastic surgery, Dibart S, Karima M, eds., Blackwell Publishing Co. 2006. p. xiii.
- 6. Miller PD, Root coverage grafting for regeneration and aesthetics, Periodontol 2000 1(2):118-127, 1993.
- 7. Maynard JG, Mucogingival considerations for the adolescent patient, in Periodontal therapy: clinical approaches and evidence of success, vol., 1, Nevin M, Mellonig JT, eds., Quintessence Publishing Co., Inc., Japan, page 291, 1998.
- 8. Kazanjian VH, Surgical operations as related to satisfactory dentures. Dental Cosmos 66:387, 1924.
- 9. Gottlieb B, Tissue changes in pyorrhea. J Am Dent Assoc 14(12):2178-207, 1927.
- 10. Hirschfeld I. The toothbrush: its use and abuse. J Am Dent Assoc 26(12):1237, 1939.
- 11. Gottsegen R, Frenum position and vestibular depth in relation to gingival health. Oral Surg Oral Med Oral Pathol 7(10):1069, 1954.
- 12. Reconstructive mucogingival therapy, in, Periodontal therapy, Goldman HM, Cohen DW, eds., sixth edition, C. V. Mosby Co. St Louis, pages 795-942, 1980.
- 13. Whinston GJ, Frenectomy and mucobuccal fold resection used in periodontal therapy. NY Dent J 22:495-7, 1956. 14. Placek M, Skach M, Lubor M, Significance of the labial frenum attachment in periodontal disease in man. Part I. Classification and epidemiology of the labial frenum. J Periodontol 45(12):891-4, 1974.
- 15. Hall WB, Pure mucogingival problems. Hall WB, ed., Quintessence Publishing Co, pages 9, 14, 25, 49, 51, 63, 1984.
- 16. Miller PD, Allen E, The development of periodontal plastic surgery. Periodontol 2000 11(6):7-17, 1996.
- 17. Orban B, Clinical and histologic study of the surface characteristics of the gingiva. Oral Surg Oral Med Oral Path 1(10):872-32.1948.
- 18. Bowers GM, A study of width of attached gingiva. J Periodontol 34:201, 1963.
- 19. Ainamo J, Loe H, Anatomical characteristics of gingiva: a clinical and microscopic study of the free and attached gingiva. J Periodontol 38(1):5-13, 1966.

- 20. Lang NP, Loe H, The relationship between the width of the attached gingiva and gingival health. *J Periodontol* 43(10):623-7, 1972.
- 21. Rose ST, App G, A clinical study of the development of the attached gingiva along the facial aspect of maxillary and mandibular anterior teeth in the deciduous, traditional and permanent dentition. *J Periodontol* 44(3):131-9, 1973.
- 22. Maynard JG, Ochsenbein C, Mucogingival problems, prevalence and therapy in children. *J Periodontol* 46(9):543-52, 1975. 23. Hall WB, Can attached gingiva be increased nonsurgically? *Quint Int* 13(4):455-62, 1982.
- 24. Establishing the adequacy of attached gingiva, in Decision-making in periodontology, Hall WB, ed., third edition, St. Louis, Mosby, page100, 1998.
- 25. Mucogingival and reconstructive surgery, in Clinical periodontology, Glickman I, ed., fourth edition, W. B. Saunders Co, pages 711-80, 1972.
- 26. Hassell TM, Tissues and cells of the periodontium. Periodontol 2000 3 (10): 9-38, 1993.
- 27. Maynard JG, Wilson RD, Physiologic dimensions of the periodontium significant to the restorative dentist. *J Periodontol* 50(4):170-4,1979.
- 28. Nevins M, Attached gingiva-mucogingival therapy and restorative dentistry. *Int J Periodontics Restorative Dent* 6(4):9-27, 1986.
- 29. Han JS, John V, et al, Changes in gingival dimensions following connective tissue grafts for root coverage: comparison of two procedures. *J Periodontol* 79(8):1346-54, 2008.
- 30. Pure mucogingival versus mucogingival problems, in Decision-making in periodontology, Hall WB, ed., third edition, St. Louis, Mosby, page 56, 1998.
- 31. Sullivan HC, Atkins JC, Free autogenous gingival grafts. 3. Utilization of grafts in the treatment of gingival recession. *Periodontics* 6(4):152-60, 1968.
- 32. Miller PD, A classification of marginal tissue recession. *Int J Periodontics Restorative Dent* 5(2):9-13, 1985.
- 33. Maynard JG, Mucogingival considerations for the adolescent patient, in Periodontal therapy clinical approaches and evidence of success, vol. 1, Nevins M, Mellonig JT, eds., Quintessence Publishing Co, Inc. Japan, page 292, 1998.
- 34. Glover ME, Periodontal plastic and reconstructive surgery, in periodontics: medicine, surgery and implants. Rose LF, Mealy BL, eds., Elsevier Mosby Co., pages 404-87, 2002.
- 35. Bohanan HM, Studies in the alteration of vestibular depth. II. Complete denudation. *J Periodontol* 33:120-8, 1962.
- 36. Ochsenbein C, Newer concepts of mucogingival surgery. *J Periodontol* 31:175-85, July 1960.
- 37. Corn H, Periosteal separation its clinical significance. *J Periodontol* 33:140-52, 1962.
- 38. Wilderman MN, Exposure of bone in periodontal surgery. Dent Clin North Am 1:23-6, 1964.
- 39. Bohanan HM, Studies in the alteration of vestibular depth. II. Periosteum retention. *J Periodontol* 33:354-9, 1962.
- 40. Staffileno H, Management of gingival recession and root exposure problems associated with periodontal disease. *Dent Clin North Am* 1(3):11-120, 1964.
- 41. Friedman N, Mucogingival surgery, the apically repositioned flap. *J Periodontol* 33:328-40, 1962.
- 42. Corn H, Technique for repositioning the frenum in periodontal problems. *Dent Clin North Am* 1(8):79-98, 1964.
- 43. Proceedings of the 1996 world workshop in periodontics.



DDS/Broker

### **ASK THE BROKER**

#### Question:

I'm thinking about selling my practice and am concerned about keeping it confidential from my staff, patients & local dentists. How do I do that?

We take great pride in protecting your privacy and keeping your sale confidential. We have all interested buyers sign a detailed Confidentiality Agreement before releasing any pertinent information. Every email from our office containing pertinent information has a bold warning that restates the importance of confidentiality and warns the recipient about contacting the doctor, office or sharing any information with anyone. Our office staff is very diligent in stressing how the process works. The brokers also reiterate not only the confidentiality process but also the expectations and conduct of the buyer in their exploration and research of the practice.

Fortunately, it is very rare that the "cat gets out of the bag". Sometimes a seller's office will receive a notice from a PPO company stating that a new doctor will be practicing at that location! In those instances, the Seller was close to announcing to the staff anyway. We still prefer to do that on our own terms. There are times when a buyer just ignores our admonition and calls the office or stops in to ask questions. We generally remove those buyers from our Data Base of active prospects after a thorough reprimand. Fortunately, most buyers are professional and it does not happen often.

I am often surprised how many sellers try to sell their practices on their own by revealing it to their dental supply representative or dental lab personnel. This is the surest way to announce to the entire dental community in the area that the practice is on the market. Most of the dental supply reps and lab personnel have stronger relationships with the dental staff than they do with the dentists. Once the word is out in the dental staff community, who knows how many more staff or patients may find out about the potential office sale.

There are some occasions when the selling doctor wishes to inform his staff about his plans early on in the process. Depending on the relationship with the staff, this can sometimes make the broker's job easier.

Maintaining good relationships with your staff is crucial. Once the staff suspects the doctor is selling, generally it is best to inform the staff about the decision rather than denying the inevitable. An experienced broker can help the doctor decide the best course of action based on the doctor's individual needs.

**Timothy G. Giroux, DDS** is currently the Owner & Broker at **Western Practice Sales** (westernpracticesales.com) and a member of the nationally recognized dental organization, ADS Transitions. You may contact *Dr Giroux at*: wps@succeed.net or 800.641.4179

Section 8. Consensus report: mucogingival therapy. Annals of Periodontology 1:702-6, 1996.

- 44. Dibart S, Karima M, Labial frenectomy alone or in combination with a free gingival autograft, in Practical periodontal plastic surgery. Dibart S, Karima M, eds., Blackwell Publishing Co., pages 53-5, 2006.
- 45. Ward VJ, A clinical assessment of the use of the free gingival graft for correcting localized recession association associated with frenal pull. J Periodontol 45:78-83, 1974. 46. Nabers CL, Repositioning the attached gingiva. J Periodontol 25:38-9, January 1954.
- 47. Nabers CL, When is gingival repositioning an indicated procedure? J West Soc Periodont 5:4, December 1957. 48. Ariaudo A, Tyrrell H, Elimination of pockets extending to or beyond the mucogingival junction. Dent Clin North Am 1:67, 1960. 49. Friedman N, Levine HL, Mucogingival surgery, current status. J Periodontol 35:5-21, 1964.
- 50. Bohannan H, Studies in the alteration of vestibular depth. I. Complete denudation. J Periodontol 33(suppl):120-8, 1962.
- 51. Bohannan H, Studies in the alteration of vestibular depth. III. Vestibular incision. J Periodontol 34:208, 1963.
- 52. Hielmann AC, Surgical repositioning of vestibule and frenums in periodontal disease. J Am Dent Assoc 55:676, 1957. 53. Rosenberg MM, Vestibular alterations in periodontics. J Periodontol 31:231-7, 1960.
- 54. Robinson RE, Periosteal fenestration in mucogingival surgery. J West Soc Periodont 9:107, 1961.
- 55. Pfeifer JS, The growth of gingival tissue over denuded bone. J Periodontol 34:10-6, 1963.
- 56. Ochsenbein C, Newer concept of mucogingival surgery. J Periodontol 31:175-85, 1960.
- 57. Edlan A, Mejchar B, Plastic surgery of vestibulum in periodontal therapy. Int Dent J 13:593, 1963.
- 58. Corn H, Periosteal separation its clinical significance. J Periodontol 33:140-53, 1962.
- 59. Robinson RE, Agnew RC, Periosteal fenestration at the mucogingival line. J Periodontol 34:503, 1963.
- 60. Bohannan H, Studies in the alteration of vestibular depth.
- II. Periosteum retention. J Periodontol 33:354-9, 1962. 61. Staffileno H, Wentz, Orban B, Histological study of
- $healing \, of \, split \, thickness \, flap \, surgery \, in \, dogs. \, \textit{JPeriodontol}$ 33(suppl):56-69, 1962.
- 62. Staffileno H, Levy S, Gargiulo A, Histologic study of cellular mobilization and repair following a periosteal retention operation via split thickness mucogingival flap surgery. J Periodontol 37:117-31, March 1966.
- 63. Wilderman MN, Repair after a periosteal retention procedure. J Periodontol 34:487-503, 1963.
- 64. Donnenfeld OW, Marks R, Glickman I, The apically repositioned flap: a clinical study. J Periodontol 35:381-7, 1964.
- 65. Arnold N, Hatchett G, A comparative investigation of two mucogingival surgical methods. J Periodontol 33(suppl):129, 1962. 66. Carino J, Camargo PM, The modified apically repositioned flap to increase the dimensions of attached gingiva: the single incision technique for multiple adjacent teeth. Int J Periodon-
- 67. Carino J, Camargo PM, Passanezi E, Increasing the apicocoronal dimension of attached gingiva using the modified apically repositioned flap technique: a case series with a sixmonth follow-up. J Periodontol 78(9):1825-30, 2007.
- 68. Bjorn H, Free transplantation of gingiva propria. Sweden

Dent I 22:684-9, 1963.

69. Becker NG, A free gingival graft utilizing a presuturing technique, Periodontics 5:194, 1967.

70. Nabers JM, Free gingival grafts. Periodontics 4(5):243-5, 1966. 71. Sullivan HC, Atkins JH, Free autogenous gingival grafts. I. Principles of successful grafting. Periodontics 6(3):121-9, 1968. 72. Pennel BM, Tabor JC, et al, Free masticatory mucosa graft. J Periodontol 40(3):162-6, 1969.

73. Synder AJ, A technique for free autogenous gingival grafts. J Periodontol 40(12):702, 1970.

74. James WC, McFall WT Jr., Placement of free gingival grafts on denuded alveolar bone. Part I. Clinical evaluations. J Periodontol 49(6):283-90, 1978.

75. James WC, McFall WT, Burkes EJ, Placement of free gingival grafts on denuded alveolar bone. Part II. Microscopic observations. J Periodontol 49(6):291-300, 1978.

76. Rateitschak KH, Egli U, Fringeli G, Recession: A four-year longitudinal study after free gingival grafts. J Clin Periodontol 6(3):158-64, 1979.

77. de Trey E, Bernimoulin J, Influence of free gingival grafts on the health of the marginal gingiva. J Clin Periodontol 7(5):281-

78. Hngorsky U, Bissada NF, Clinical assessment of free gingival graft effectiveness on maintenance of periodontal health. J Periodontol 51(5):274-8, 1980.

79. Dorfman HS, Kennedy JE, Bird WC, Longitudinal evaluation of free gingival grafts. A four-year report. J Periodontol 53(6):349-52, 1982.

80. Wei PC, Laurell, et al, Acellular dermal matrix allografts to achieve increased attached gingiva. Part 1. A clinical study. J Periodontol 71(8):1297-305, 2000.

81. Harris RJ, Gingival augmentation with an acellular dermal matrix: human histologic evaluation of a case placement of the graft on periosteum. Int Periodontics Restorative Dent 24(4):378-85, 2004.

82. Wennstrom JL, Mucogingival therapy. Ann Periodontol 1(1):671-701, 1996.

83. Bahat O, Handelsman M, Periodontal reconstructive flapsclassification and surgical considerations. Int J Periodontics Restorative Dent 11(6):480-7, 1991.

84. Caufill RF, Oringer RJ, et al, Esthetic periodontics (periodontal plastic surgery), in Fundamentals of periodontics, Wilon TG, Kornman KS, eds., Quintessence Publishing Co., Inc. Singapore, page 506, 1996.

85. Grupe J, Warren R, Repair of gingival defects by a sliding flap operation. J Periodontol 27(4):92-5, 1956.

86. Grupe J, Modified technique for the sliding flap operation. J Periodontol 37(6):491-5, 1966.

87. Staffileno H, Management of gingival recession and root exposure problems associated with periodontal disease.  ${\it Dent}$ Clin North Am 8:111-20, 1964.

88. Pfeifer J, Heller R, Histologic evaluation of full and partial thickness lateral repositioned flaps. A pilot study. J Periodontol 42(6):331-3, 1971.

89. Cohen D, Ross S, The double papillae flap in periodontal therapy. J Periodontol 39(2):65-70, 1968.

90. Pennel BM, Higgison JD, et al, Oblique rotated flap. J Periodontol 36:305-9, July-August 1965.

91. Patur B, The rotation flap for covering denuded root surfaces  $\,$ — a closed window technique. J Periodontol 48(1):41-4, 1977.

92. Bahat O. Handelsman M. Gordon J. The transpositioned

flap in mucogingival surgery. Int J Periodontics Restorative Dent 10(6):473-82, 1990.

93. Jones W, O'Leary T, The effectiveness of in vivo root planing in removing bacterial endotoxin from the roots of periodontally involved teeth. J Periodontol 49(7):337-42, 1978. 94. Shiloah J, The clinical effects of citric acid and laterally

positioned pedicle grafts in the treatment of denuded root surfaces: a pilot study. J Periodontol 51(11):652-4, 1980.

95. Wikesjo UME, Baker P, et al, A biomedical approach to periodontal regeneration: tetracycline treatment conditions dentine surfaces. J Periodontol Res 21(4):322-9, 1986.

96. Smukler H, Laterally positioned mucoperiosteal pedicle grafts in the treatment of denuded roots. J Periodontol 47(10):590-5, 1976.

97. Guinard EA, Caffesse RG, Treatment of localized gingival recessions. Part I. Lateral sliding flap. J Periodontol 49(7):351-6.1978

98. Dibart S, Karima M, Pedicle grafts: rotational flaps and double-papilla procedure, in Practical periodontal plastic surgery. Dibart S, Karima M, eds., Blackwell Publishing Co., page 36, 2006.

99. Hall WB, Gingival augmentation/mucogingival surgery, in Proceeding of the world workshop in clinical periodontics. Nevins M, Becker W, Kornman K., eds., Chicago, American Academy of Periodontology VII-1-VII-21, 1989.

100. Miller PD, Allen E, The development of periodontal plastic surgery. Periodontology 2000 11:7-17, June 1996.

101. Nevins M, Cappetta EG, An overview of mucogingival surgery to cover the exposed root surface, in Periodontal therapy: a clinical approaches and evidence of success, vol. 1, Nevin M, Mellonig JT, eds., Quintessence Publishing Co., Inc., Japan, page 343, 1998.

102. Allen EP, Miller PD Jr., Coronally positioning of existing gingiva: short term results in the treatment of shallow marginal tissue recession. J Periodontol 60(6):316-9, 1989.

103. Anilkumar K, Geetha A, et al, Platelet-rich-fibrin: A novel root coverage approach. J Indian Soc Periodontol 13(1):50-4,

104. Helburn RL, Cohen DW, Chacker FM, Healing of repositioned mucogingival flaps in monkeys. IADR abstract 41:116,

105. Carranza FA, Takei HH, Mucogingival surgery, in Clinical periodontology, Carranza FA, Newman MG, eds., eighth edition, WB Saunders Co., page 651-72, 1996.

106. Harvey PM, Management of advanced periodontitis. Part I. Preliminary report of a method of surgical reconstruction. NZ Dent J 61(285):180-7, 1965.

107. Maynard JG Jr., Coronal positioning of a previously placed autogenous gingival graft. J Periodontol 48(3):151-5, 1977. 108. Bernimoulin JP, Luscher B, Muhkemann HR, Coronally repositioned periodontal flap. J Clin Periodontol 2(1):1-13, 1975. 109. Sumner CF, Surgical repair of recession on the maxillary cuspid. Incisally repositioning the gingival tissues. J Periodon-

110. Brustein D, Cosmetic periodontics: coronally repositioned pedicle graft. Dent Surv 46(7):22-5, July 1970.

111. Restrepo OJ, Coronally repositioned flap. Report of four cases. J Periodontol 44(9):564-7, 1973.

tol 40(2):119-21, 1969.

112, Dibart S, Pedicle grafts: coronally advanced flaps, in Practical periodontal plastic surgery. Dibart S, Karima M, eds., Blackwell Publishing Co., pages 41-44, 2006.

tics Restorative Dent 26(3):265-9, 2006.

113. Caffesse RG, Guinard E, Treatment of localized gingival recessions. II. Coronally repositioned flap with a free gingival graft. J Periodontol 49(7):357-61, 1978.

114. Matter J, Free gingival graft and coronally repositioned flap: a two-year follow-up report. J Clin Periodontol 6(6):437-42.1979.

115. Matter J, Cimasoni G, Creeping attachment after free gingival grafts. J Periodontol 47(10):574-9, 1976.

116. Santamaria MP, Suaid FF, et al, Coronally positioned flap plus resin-modified glass ionomer restoration for the treatment of gingival recession associated with noncarious cervical lesions: a randomized controlled clinical trial. J Periodontol 79(4):621-8, 2008.

117. Tarnow DP, Semilunar coronally repositioned flap. J Clin Periodontol 13(3):182-5, 1986.

118. Harlan AW, Discussion of paper: restoration of gum tissue. Dental Cosmos 49:591-8, 1907.

119. Haghighat K, Modified semilunar coronally advanced flap. J Periodontol 77(7):1274-9, 2006.

120. Marggraf E, A direct technique with a double lateral bridging flap for coverage of denuded root surface and gingival extension. Clinical evaluation after two years. J Clin Periodontol 12(1):69-76, 1985.

121. Romanos GE, Bernumoulin JP, Marggraf E, The double lateral bridging flap for coverage of denuded root surface: longitudinal study and clinical evaluation after five to eight years. J Periodontol 64(8):683-8, 1993.

122. Vijayalakshmi R, Uma S, et al, Double lateral sliding bridge flap for the coverage of denuded roots: two case reports. Perio 5(1):29-33, 2008.

123. Haggerty PC, The use of a free gingival graft to create a healthy environment for full crown preparation. Periodontics 4(6):329-31, 1966.

124. Hawley CE, Staffileno H, Clinical evaluation of free gingival grafts in periodontal surgery. J Periodontol 41(2):105-12, 1970. 125. Remya V, Kumar KK, et al, Free gingival graft in the treatment of class III gingival recession. Indian J Dent Res 19(3):247-52, 2008.

126. Camargo PM, Melnick PR, Kenney EB, The use of free gingival grafts for aesthetic purposes. Periodontology 2000

127. Carranza FA, Takei HH, Mucogingival surgery, in Clinical periodontology, Carranza FA, Newman MG, eds., eighth edition, WB Saunders Co, pages 651-72, 1996.

128. Rateitschak KH, Rateitschak EM, et al, Color atlas of periodontology. New York, Thieme, 1985.

129. Popova C, Kotsilkov K, Doseva V, Mucogingival surgery with free gingival graft (strip technique) for augmentation of the attached gingival tissues: report of three cases. Journal of IMAB 2:25-30, 2007.

130. Han TJ, Takei HH, Carranza FA, The strip gingival auto graft technique. Int J Periodont Res Dent 13(2):180-7, 1993.

131. Maynard JG Jr., Coronally positioning of a previously placed autogenous gingival graft. J Periodontol 48(3):151-5, 1977. 132. Bernimoulin JP, Luscher B, Muhlemann HR, Coronally repositioned periodontal flap. Clinical evaluation after one year. J Clin Periodontol 2(1):1-13, 1975.

133. Guinard EA, Caffesse RG, Treatment of localized gingival recessions. III. Comparison on results obtained with lateral sliding and coronally repositioned flaps. J Periodontol 49(9):457-61, 1978.





perfect opportunity for you!

Join Aspen Dental the premier network of dental practices.

Call

866-745-5155

Connect with us:



AspenDentalJobs.com

Aspen Dental is an EOE.

- 134. Khoshkhoonejad AA, Akbari S, Vertical strip gingival graft: a new technique for gingival augmentation. A pilot study. J Dentistry, Tehran University of Medical Sciences 1(2):5-10, 2004. 135. Miller PD Jr., Root coverage with the free gingival graft. Factors associated with incomplete coverage. J Periodontol 58(10):674-81.1987.
- 136. Miller PD Jr., Root coverage using a free soft tissue autograft following citric acid application. Part I. Technique. Int J Periodontics Restorative Dent 2(1):65-70, 1982.
- 137. Miller PD Jr., Root coverage using a free soft tissue autograft following citric acid application. III. A successful and predictable procedure in areas of deep-wide recession. Int J Periodontics Restorative Dent 5(2):14-37, 1985.
- 138. Holbrook T, Ochsenbein C, Complete coverage of the denuded root surface with a one-stage gingival graft. Int J Periodontics Restorative Dent 3(3):8-27, 1983.
- 139. Agudio G, Nieri M, et al, Free gingival grafts to increase keratinized tissue: a retrospective long-term evaluation (10 to 25 years) of outcome. J Periodontol 79(4):587-94, 2008.
- 140. Ellegaard B, Karring T, Loe H, New periodontal attachment procedure based on retardation of epithelial migration. J Clin Periodontol 1(2):75-88, 1974.
- 141. Breault L, Fowler E, Billman MA, Retained free gingival graft rugae. A nine-year case report. J Periodontol 70(4):438-40, 1999. 142. Langer B, Calanga L, The subepithelial connective tissue graft. J Prosthet Dent 44(4):363-7, 1980.
- 143. Langer B, Langer L, Subepithelial connective tissue graft technique for root coverage. J Periodontol 56(12):715-20, 1985. 144. Reiser GM, Bruno JF, The subepithelial connective tissue graft for achieving root coverage, in Periodontal therapy clinical approaches and evidence of success, vol., Nevins M, Mellonig JT, eds., Quintessence Publishing Co., Inc., Japan, page
- 145. Wessel JR, Tatakis DN, Patient outcomes following subepithelial connective tissue graft and free gingival procedures. J Periodontol 79(3):425-30, 2008.
- 146. Dibart S, Karima M, Subepithelial connective tissue graft, in Practical periodontal plastic surgery. Dibart S, Karima M, eds., Blackwell Publishing Co, pages 31-3, 2006.
- 147. Edel A, Clinical evaluation of free connective tissue grafts used to increase the width of keratinized gingiva. J Clin Periodontol 1(4):185-96, 1974.
- 148. Karring T, Lang NP, Loe H, The role of gingival connective tissue in determining epithelial differentiation. J Periodontol Res 10(1):1-11, 1974.
- 149. Checchi L, Marini I, Montevecchi M, A technique to remove epulis: case reports. Int J Periodontics Restorative Dent 24(5):470-5, 2004.
- 150. Harris RJ, The connective tissue and partial thickness double pedicle graft: a predictable method of obtaining root coverage. J Periodontol 63(5):477-86, 1992.
- 151. Bruno J, Connective tissue graft technique assuring wide root coverage. Int J Periodontics Restorative Dent 14(2):127-37, 1994. 152. Raetzke PB, Covering localized areas of root exposure employing the "envelope" technique. J Periodontol 56(7):397-402, 1985.
- 153. Zabalegui I, Sicilia A, et al, Treatment of multiple adjacent gingival recessions with the tunnel subepithelial connective tissue graft: a clinical report. Int J Periodontics Restorative Dent 19(2):199-206, 1999.
- 154. Allen AL, Use of the supraperiosteal envelop in soft tissue grafting for root coverage. I. Rationale and technique. Int  ${\it J}$

- Periodontics Restorative Dent 14(3):216-27, 1994.
- 155. Allen AL, Use of the supraperiosteal envelop in soft tissue grafting for root coverage. II. Clinical results. Int J Periodontics Restorative Dent 14(4):302-15, 1994.
- 156. Nelson SW, The subpedicle connective tissue graft. A bilaminar reconstructive procedure for coverage of denuded root surfaces. J Periodontol 58(2):95-102, 1987.
- 157. Bouchard P, Etienne D, et al, Subepithelial connective tissue grafts in the treatment of gingival recession: a comparative study of two procedures, J Periodontol 65(10):929-36, 1994. 158. Holthuis AF, The subepithelial connective tissue graft for root coverage in periodontal therapy-rationale and technique. J Can Dent Assoc 60(10):885-90, 1994.
- 159. Oates TW, Robinson M, Gunsolley JC, Surgical therapies for the treatment of gingival recession. A systematic review. Ann Periodontol 8(1):303-20, 2003.
- 160. McGurie MK, Nunn M, Evaluation of human recession defects treated with coronally advanced flaps and either enamel matrix derivative or connective tissue. Part I: comparison of clinical parameters. J Periodontol 74(8):1110-25, 2003. 161. Jahnke PV, Sandifer JB, et al, Thick free gingival and
- connective tissue autografts for root coverage. J Periodontol 64(4):315-22, 1993. 162. Han JS, John V, et al, Changes in gingival dimensions fol-
- lowing connective tissue grafts for root coverage: comparison of two procedures. J Periodontol 79(8):1346-54, 2008. 163. Suaid FF, Carvallho MD, et al, Platelet-rich plasma and connective tissue grafts in the treatment of gingival recessions: a histometric study in dogs. J Periodontol 79(5):888-95, 2008
- 164. Pini Prato G, Tinti C, et al, Guided-tissue regeneration versus mucogingival surgery in the treatment of human buccal gingival recession. J Periodontol 63(11):919-28, 1992.
- 165. Pini Prato G, Clauser C, et al, Guided-tissue regeneration versus mucogingival surgery in the treatment of human buccal recessions. A four-year follow-up study. J Periodontol 67(11):1216-23, 1996.
- 166. Tinti C, Vincenzi GP, Expanded polytetrafluoroethylene titanium-reinforced membranes for regeneration of mucogingival recession defects: a 12-case report. J Periodontol 65(11):1088-94.1994.
- 167. Karring T, Nyaman S, et al, Development of the biological concept of guided-tissue regeneration animal and human studies. Periodontol 2000 1(1):26-35, 1993.
- 168. Shanaman R, Gingival augmentation using guided-tissue regeneration: two case reports. Int J Periodontics Restorative Dent 13(4):372-7, 1993.
- 169. Pini Prato G, Clauser C, Cortellim P, Guided-tissue regeneration and a free gingival graft for the management of buccal recession: a case report. Int J Periodontics Restorative Dent 13(6):486-93, 1993.
- 170. Trombelli L, Schincaglia G, et al, Combined guided-tissue regeneration, root conditioning and fibrin-fiberonectin system application in the treatment of gingival recession. A case report. J Periodontol 65(8):796-803, 1994.
- 171. Trombelli L, Schinacaglia GP, et al, Healing response of human buccal gingival recessions treated with expanded polytetrafluoroethylene membranes. A retrospective report. J Periodontol 66(1):14-22, 1995.
- 172. Trombelli L, Schinacaglia GP, et al, Effects of tetracycline HCl conditioning and fibrin-fiberonectin system application in the treatment of buccal gingival recession with guided-tissue

- regeneration. J Periodontol 66(5):313-20, 1995.
- 173. Roccuzzo M, Buser D, Treatment of buccal gingival recessions with ePTFE membranes and miniscrew: surgical procedure and results of 12 cases. Int J Periodontics Restorative Dent 16(4):357-65, 1996.
- 174. Roccuzzo M, Lungo M, et al, Comparative study of a bioresorbable and a nonresorbable membrane in treatment of human buccal recession. J Periodontol 67(1):7-14, 1996.
- 175. Trombelli L, Tatakis DN, et al, Comparison of mucogingival changes following treatment with coronally positioned flap and guided-tissue regeneration procedures. Int J Periodontics Restorative Dent 17(5):449-55, 1997.
- 176. Shieh AT, Wang HL, et al, Development and clinical evaluation of a root coverage procedure using a collagen barrier membrane. J Periodontol 68(8):770-8, 1997.
- 177. Zahedi S, Bozon C, Brunel G, A two-year clinical evaluation of a diphenylphosphorylazide-cross-linked collagen membrane for the treatment of buccal gingival recession. J Periodontol 69(9):975-81, 1998.
- 178. Waterman CA, Guided-tissue regeneration using a bioabsorbable membrane in the treatment of human buccal recession, a re-entry study. J Periodontol 68(10):982-9, 1997. 179. Trombelli L, Scabbia A, et al, Resorbable barrier and envelop flap surgery in the treatment of human recession defects. A case report. J Clin Periodontol 25(1):24-9, 1998. 180. Matarasso S, Cafiero C, et al, Guided-tissue regeneration versus coronally repositioned flap in the treatment of reces $sion\ with\ double\ papillae.\ Int\ J\ Periodontics\ Restorative\ Dent$ 18(5):445-53, 1998.
- 181. De Sanctis M, Zucchelli G, Guided-tissue regeneration with a resorbable barrier membrane (Vicryl) for the management of buccal recession: a case report. Int J Periodontics Restorative Dent 16(5):434-41, 1996.
- 182. Danesh-Meyer MJ, Wikesjo UME, Gingival recession defects and guided-tissue regeneration: a review. J Periodont Res 36(6):341-54, 2001.
- 183. Cortellini P, Clauser C, Pini Prato GP, Histologic assessment of new attachment following the treatment of human buccal recession by means of a guided-tissue regeneration procedure. J Periodontol 64(5):387-91, 1993.
- 184. Parma-Benfenati S, Tinti C, Histologic evaluation of new attachment utilizing a titanium-reinforced barrier membrane in a mucogingival recession defect. A case report. J Periodontol 69(7):834-9, 1998.
- 185. Roccuzzo M, Bunino M, et al, Periodontal plastic surgery for treatment of localized gingival recession: a systemic review. J Clin Periodontol 29(suppl.3):178-94, 2002.
- 186. Wei PC, Laurell L, et al, Acellular dermal matrix allografts to achieve increased attached gingival. Part 1. A clinical study. J Periodontol 71(8):1297-305, 2000.
- 187. Wainwright DJ, Use of an acellular allograft dermal matrix (AlloDerm) in the management of full thickness burns. Burns 21(4):243-8, 1995
- 188. Silverstein LH, Callan DP, An acellular dermal matrix allograft substitute for palatal donor tissue. Postgrad Dent 3:14-21, 1997
- 189. Dibart S, Acellular dermal matrix graft (AlloDerm), in Practical periodontal plastic surgery, Dibart S, Karima M, eds., Blackwell Publishing Co., pages 49-52, 2006.
- 190. Buduneli E, Ilgenli T, et al, Acellular dermal matrix allograft used to gain attached gingiva in a case of epidermolysis bullosa. J Clin Periodontol 30(11):1011-5, 2003.

191. Harris RJ, Clinical evaluation of three techniques to augment keratinized tissue without root coverage. *J Periodontol* 72(7):932-8, 2001.

192. Batista EL, Batista FC, Novaes AB, Management of soft-tissue ridge deformities with acellular dermal matrix. Clinical approach and outcome after six months of treatment. J Periodontol 72(2):265-73, 2001.

193. Aichelmann-Reidy ME, Yukna RA, et al, Clinical evaluation of acellular allograft dermis for the treatment of human gingival recession. *J Periodontol* 72(8):998-1005. 2001.

194. Barros RR, Novaes AB Jr., et al, New surgical approach for root coverage of localized gingival recession with acellular dermal matrix: a 12-month comparative clinical study. *J Esthet Restor Dent* 17(3):156-64, 2005.

195. Paolantonio M, Dolci M, et al, Subpedicle acellular dermal matrix graft and autogenous connective tissue graft in the treatment of gingival recessions: a comparative one-year clinical study. *J Periodontol* 73(11):1299-307, 2002.

196. Barros RRM, Novaes AB, et al, A six-month comparative clinical study of a conventional and a new surgical approach for root coverage with acellular dermal matrix. *J Periodontol* 75(10):1350-6, 2004.

197. de Queiroz Côrtes A, Sallum AW, et al, A two-year prospective study of coronally positioned flap with or without acellular dermal matrix graft. *J Clin Periodontol* 33(9):683-9, 2006. 198. Felipe ME, Andrade PF, et al, Comparison of two surgical procedures for use of the acellular dermal matrix graft in the treatment of gingival recessions: a randomized controlled clinical study. *J Periodontol* 78(7):1209-17, 2007.

199. Novaes AB, Pontes CC, et al, The use of acellular dermal matrix allograft for the elimination of gingival melanin pigmentation: case presentation with two years of follow-up. Pract Proced Aesthet Dent 14(8):619-23, 2002.

200. Novaes AB, Souza SLS, Acellular dermal matrix graft as a membrane for guided bone regeneration: a case report. *Implant Dent* 10(3):192-6, 2001.

201. Novaes AB, Papalexiou V, et al, Immediate implant in extraction socket with acellular dermal matrix graft and bioactive glass: a case report. *Implant Dent* 11(4):343-8, 2002. 202. Luczyszyn SM, Papalexiou V, et al, Acellular dermal matrix

and hydroxyapatite in prevention of ridge deformities after tooth extraction. *Implant Dent* 14(2):176-84, 2005.

203. de Andrade PF, de Souza SL, et al, Acellular dermal matrix as a membrane for guided-tissue regeneration in the treatment of class II furcation lesions: a histometric and clinical study in dogs. *J Periodontol* 78(7):1288-99, 2007.

204. Andrade PF, Felipe ME, et al, Comparison between two surgical techniques for root coverage with an acellular dermal matrix graft. *J Clin Periodontol* 35(3):263-9, 2008.

205. Mahajan A, Dixit J, Verma UP, A patient-centered clinical evaluation of acellular dermal matrix graft in the treatment of gingival recession defects. *J Periodontol* 78(12):2348-55, 2007. 206. Greenwell H, Fiorellini J, et al, Academic report – oral reconstruction and corrective considerations in periodontal therapy. *J Periodontol* 76(9):1588-600, 2005.

TO REQUEST A PRINTED COPY OF THIS ARTICLE, PLEASE CONTACT Vivek K. Bains, MDS, at doc vivek/76@yahoo.co.in.

## **WESTERN PRACTICE SALES | JMCA**



Tim Giroux, DDS



Jon Noble, MBA



Mona Chang, DDS



John Cahill, MBA



Ed Cahill, JD

800.641.4179

#### What separates us from other brokerage firms?

As dentists and business professionals, we understand the unique aspects of dental practice sales and offer more practical knowledge than any other brokerage firm. We bring a critical inside perspective to the table when dealing with buyers and sellers by understanding the different complexities, personalities, strengths and weaknesses of one practice over another.

We offer unsurpassed exposure -Marketing your practice in all of the major journals, including Dental Economics.

#### Let us provide a FREE "Opinion of Market Value" on your Practice\*

\*To be used for your internal purposes only. Not to be confused with a formal business appraisal.

#### **Testimonials**

"The fact that you are a dentist adds a whole new dimension to your abilities as a broker, one which most other brokers cannot come close to"

"Your personal dedication to making everything happen was a unique touch"

"You gave me guidance that only a dentist would think of"

"Your experience & knowledge coupled with your kind personal touch I believe makes you the best in the industry!"

wps@succeed.net adstransitions.com westernpracticesales.com

# Specializing in the Selling and Appraising of Dental Practices



Serving California Since 1974

"Your local Southern California Broker" Phone (714) 639-2775 (800)697-5656 Fax (714) 771-1346 E-Mail: jknipf@aol.com rpalumbo@calpracticesales.com WWW.CALPRACTICESALES.COM



John Knipf & Robert Palumbo

#### LOS ANGELES COUNTY

ARCADIA - Spacious 2,600 sqft luxury office w/ a home town feel. Leasehold & Equip Only. 6 fully eq. op's w/ Adec chairs. ID #4015. ENCINO - Leasehold & Equip Only! - Corner location w/ good window views. A great starter opportunity / 3 spacious eq. ops. ID#3971. ENCINO - Leasehold & Equip Only! Located on 2nd fl of multi story prof bldg w/ 2 eq. ops & 1 plmbd not eq. Low sales price.ID #4005. LOS ANGELES - GP located in a 2 story busy shopping center w/ great exposure & valet parking. Equip w/ Charts Only. ID# 3861 LOS ANGELES - In Wilshire West Bldg, wired for digital network - no equipment - but an excellent lease well under market rate. #4011. LOS ANGELES - PRICE REDUCED! Long established practice located in a shopping center w/ heavy traffic flow. D#2771. LOS ANGELES - Leasehold & Equip Only! Excellent for a 1st time Buyer. Neat office w/ 3 eq ops in a multi story bldg. ID#4025. LOS ANGELES -Turn-Key office w/ 2 eq. ops. in the Westchester area. Established in 1972. Fee for service. ID #4039. RESEDA - Family dental Turnkey office in a single story Med/ Dent bldg w/ excellent street visibility and high traffic flow. ID #3998. TARZANA -Modern design turneky office is located in a 2 story prof. bldg on a busy street w/ great street visibility. ID#4031. SAN GABRIEL - Leasehold & Equip Only! Great opportunity for GP or Specialist, located in single story building w/ 2 eq ops. ID#3161. WHITTIER - Fee for serv pract w/ 59 yrs of gdwll. Located in a 1,450 sf single standing bldg w/ private parking. Bldg for Sale. ID#3931. WOODLAND HILLS - Well equipped Pedo office with 3 chairs in open bay area. 31 years of goodwill. NET OF \$261K. ID #3661.

#### **ORANGE COUNTY**

ALISO VIEJO - PRICE REDUCED!! Modern design Turn Key practice with great views and beautiful decor. ID #3301.

GARDEN GROVE - Turnkey practice w/ over 20 years of gdwll located in one story free standing building w/ ample parking. ID #3988.

IRVINE - Price Reduction!! Leasehold & equip. only. 5 eq. ops., 1,450 sq. ft suite located in busy Ralph's shopping center. ID #3401.

IRVINE - Leasehold & Equip Only! Great opportunity for a Spec.! Beautiful décor office w/ 4 ops, located in a Med / Dent bldg.ID#3986.

IRVINE - Leasehold & Equip Only! Well laid out office in a multi story professional medical building. Great views. 7 eq ops. ID #4019.

LAKE FOREST - PRICE REDUCED! Modern design office with State-of-the-Art equipment. Leasehold & Equip Only. ID #3631.

ORANGE GP - Well established practice located in a single story medical center with 4 fully eq. ops., 1 plumbed not eq. ID #3531.

#### RIVERSIDE / SAN BERNARDINO COUNTIES

HEMET GP - Practice established in 1988. Fee for service office located in single story strip mall w/4 computerized ops. ID #4037-1 HEMET GP- Established in 2004, located in a single story strip mall. Consist of 4 computerized eq. ops., w/ Easy Dental soft.ID #4037-2 MORENO VALLEY - PRICE REDUCED! Turn-Key practice in busy Ralph's shopping center w/3 eq. ops., & 2 plmbd.ID #3311. MURRIETA - State of the art office consist of 6 spacious eq. ops. and is located in a prestigious stand alone building. Turnkey. ID #4002. MURRIETA - Price Reduced! Leasehold & Equip w/ some charts. Well design office with 4 fully eq. ops., 1,350 sq. ft office. ID #3221.

#### SANTA BARBARA & KERN COUNTY

**BAKERSFIELD** - State of the art office. Fee for service. Grossed approx. \$1.9M for 2010. NET OF \$405K. Gorgeous office. ID #4017. **FRESNO** - Central Valley" GP - Well designed office located in a single story building with over 20 years of goodwill. ID #4023. **SANTA MARIA GP** - Established over 13 years this practice is located in a Medical plaza. 4 eq. ops, with Eagle Soft software. ID #4007.

#### **UPCOMING LISTINGS**

BURBANK, IRVINE, MONTEBELLO, PALOS VERDES ESTATES, SAN DIEGO, & TORRANCE

Call us about Debt Consolidation & Retirement Planning
VISIT OUR WEBSITE WWW.CALPRACTICESALES.COM
CA DRE#00491323

#### **EQUIPMENT FOR SALE**

**EQUIPMENT FOR SALE** — Our office purchased new intraoral wall (\$1500), mobile X-rays (\$1500), chairs and units packages (\$3695), implant motors (\$1995) and more. Need to downsize. Everything brand new, still in box with warranty. Contact 561-703-1961 or nycfreed@aol.com.

#### OFFICES FOR RENT OR LEASE

**DENTAL BUILDING FOR LEASE IN ESCONDIDO** — Stunning and exclusive 2,000 sq. ft. single story, free-standing building dental building in prime location.

Good visibility and ample parking. Plumbed for six operatories and two labs. Private office, two restrooms and beautiful reception area with bay window. Contact Vern at 760-739-1312 or blaney@cox.net.

**DENTAL OFFICE FOR RENT** — Available Tuesdays, Fridays and Saturdays. Three operatories, dental assistant/receptionist upon request. Located in Beverly Hills Triangle. Contact Violet at 310-275-0838 or violet@dentalcareofbeverlyhills.com.

**DENTAL SUITES FOR LEASE IN SILI- CON VALLEY** — Renovated ortho, pedo and general space with views in Los
Gatos, an affluent community. Close to

schools, downtown and freeway. Contact Trask Leonard at 650-282-4620, email at tleonard@baysiderp.com or email owner at 2340akmeadow@sbcglobal.net.

#### **EQUIPPED DENTAL OFFICE FOR LEASE**

— Need to lease office during down time on weekends/evenings for 12 hours per week to teach a dental assisting program. The National School of Dental Assisting operates in 5 states with 12 locations and is planning to expand into California. Lease payment of \$500 to \$1500/month depending on enrollment. Call Dr. Peter Najim at 800-509-2864.

CONTINUES ON 586

### How to Place a Classified Ad

For information on placing a classified, contact Jenae Gruchow at 916-554-5332 or Jenae.Gruchow@cda.org.

The deadline for classified advertising is the first day of the month, prior to the month of publication. After the deadline closes, ads will not be accepted, altered or canceled. Deadlines are firm.

Licensed agents and brokers may not place classified ads. For information on display advertising, please contact Corey Gerhard at 916-554-5304 or Corey. Gerhard@cda.org.

CDA reserves the right to edit copy and does not assume liability for contents of classified advertising.

# When Looking to Invest in Professional Dental Space Dental Professionals Choose



# Linda Brown

30 Years of Experience Serving the Dental Community Proven Record of Performance

- Dental Office Leasing and Sales
- Investment Properties
- Owner/User Properties
- Locations Throughout Southern California

For your next move, Contact Linda Brown: Direct Line: (818) 466-0221 Fax: (818) 593-3850

E-mail: LindaB@TOLD.com

website: www.TOLD.com

CA DRE #: 01465757





REPRESENTING OVER 3500 DENTISTS OVER THE PAST 25 YEARS IN THE FOLLOWING AREAS.

Dental Board Defense MSOs

Practice Purchase Agreements
Partnership Agreements
Leases

Space Sharing/Group-Solo Associate Agreements Loan Workouts Associate Buy-Ins Estate Planning

Patrick J. Wood, Attorney at Law Charles X. Delgado, Attorney at Law Jason P. Wood, Attorney at Law

Offices in San Francisco, Orange and Riverside Counties Toll Free: 800-499-1474 • FAX: 800-511-2138

visit our website at: www.dentalattorneys.com



#### Nor Cal GOLDEN STATE PRACTICE SALES sm

Specializing In Northern & Central California Practice Sales & Consulting

#### James M. Rodriguez, MA, DDS

44 Holiday Drive, P.O. Box 1057, Alamo, CA 94507

\*\*DRE Licensed Broker # 957227\*\*

- \* MARIN COUNTY Coll. \$332K, 3-ops, between Sausalito and San Rafael. SALE PENDING
- \* PERIODONTAL S.F. East Bay Established 30 plus years. Well known and respected in dental community. Seller will stay on contractually for introduction to established referral base.
- \* CENTRAL CONTRA COSTA DANVILLE Established family practice priv/ins UCR, \$1.2M collections, 4 operatories. SOLD
- SOUTH LAKE TAHOE For Lease. 5-ops. Not equipped. No upgrades or additions needed. Very special, "stunning" location. Call for details.
- **DUNSMUIR SHASTA -** Dental office bldg for sale. Call for referral.

Practice Sales - Presale Complimentary Consultations and Valuation Estimates Practice Appraisals and Forensic Services - Independent Practitioner Programs

> Each Transaction Handled Personaly From Start To Finish Buyer Consultant Service Available STRICT CONFIDENTIALITY OBSERVED

> > 925-743-9682

Integrity-Experience-Knowledge-Reputation e-mail gspsjimrod@sbcglobal.net

CLASSIFIEDS, CONTINUED FROM 585

#### **EXCLUSIVE DENTAL SUITES FOR**

**LEASE** — Short/long term lease, state of the art equipment and accommodations. Conveniently located off the 101 Freeway. Laura Miller 818-758-3557.

#### MOVE-IN READY OFFICE FOR LEASE

— 1,716 sq. ft. medical office avaible. Reception area, five exam rooms with sinks, lab area and offices. High referral potential for Specialists. Attractive lease rates available. Contact 714-550-4910.

#### NEW DENTAL BUILDING IN ALBANY -

Prime Albany/Solano Ave. Approximately 1,500 sq. ft. on 2nd floor. Elevator, spectacular design, high ceiling and glass wall. Includes vacuum and compressor. Plentiful parking. Orthodontist landlord on ground floor. Contact Dr. Immi Song at 510-325-9321.

#### SACRAMENTO FOOTHILLS OFFICE FOR

**LEASE OR SALE** — Beautiful, turn-key office in high-end retail center available for lease or purchase located in Sacramento Foothills. Owner finance okay. Contact 916-390-5993.

#### SANTA CLARA OFFICE FOR RENT OR

**LEASE** — Fully equipped, six operatories, ample parking, free standing one story building, approximately 1,800 sq. ft. Close to Santana Row. Option to buy. Call 619-644-2906.

**SPACE AVAILABLE FOR RENT** — SF Bay Area North. 750-5,000 sq. ft. of existing dental office. Very reasonable. Inquiries 707-994-1218.

**DENTAL SUITE IN SANTA ROSA** — Renovated 1,600 sq. ft. office. Has some new equipment and furnishings, no patients. Very reasonable rent at \$1,500/mo. Email jsmuthy@aol.com.

CONTINUES ON 590



### WESTERN PRACTICE SALES

### John M. Cahill Associates

# Visit Us at the CDA Fall Scientific Session BOOTH # 2016

Moscone South Convention Center September 22<sup>nd</sup>-24<sup>th</sup>, 2011

#### **BAY AREA**

#### A-8941 SAN FRANCISCO- Move-In Ready! Two Fully Equipped ops/plumbed for 1 add'1 Only \$65k A-970 SF - FACILITY 450 Sutter never looked so **good!!!** Corner suite w/ 7 large windows! Stunning city views! 1,000 sf w/4 fully equipped ops \$125k B-9541 BRENTWOOD - Facility Only Centrally located in a highly visible shopping complex wellestablished neighborhood. 2,203sf & 6 ops \$230k B-9791 OAKLAND Historic building in heart of downtown w/in blocks of the financial, commercial district. 2,050 sf w/ 4 fully equipped ops \$275k C-8901 SANTA ROSA— Residential area. 40+ new pats/mo. Highly Visible! 1291sf & 3 + 1 op. \$475k C-976 PETALUMA—Prestigious area! ~ 10 patients per Office is $\sim 800 \text{ sf w/2 ops } \$350 \text{k}$ C-971 NAPA VALLEY - Large, loyal patient base. 15-20 pats/day. Located in the heart of town. 1,200 sf w/ 4 ops \$470k Building available for Sale Also! **D-877 LOS ALTOS** -Pristine Professional plaza. Office is $\sim 2,400 \text{sf}$ - 6 ops 2009 Collections \$819k!! Reduced to \$350k to offset rent amount

ops *Call for Details!*<u>D-925 SANTA CLARA</u> - Retail Center in the heart of the Silicon Valley. 1,500 sf & 3 ops \$499k

**D-9091 ATHERTON** -Turnkey operation 969 sf & 3

D-960 Facility only SAN JOSE - Reasonable rent and great lease. Opportunity to purchase condo suite also! 1,158sf w/3 fully equipped ops REDUCED TO ONLY \$85k

**D-965 WATSONVILLE** - Location and a large stable patient base! Office ~ 2,393sf, w/ 4 equipped ops + plumbed for 4 add'l ops. **\$420k** 

D-967 SAN JOSE – FACILITY—Like new, beautiful scratch-start office. ~1,600+ sf w/ 4 ops \$150k

D-977 SAN JOSE FACILITY—Nicely equipped, sparkling facility! This would cost more to duplicate!

Office ~ 1,100sf w/ 4 fully ops \$150k

D-982 SUNNYVALE Facility - Corner suite. Newly equipped & newly remodeled. "Move-in" ready. 2 ops & space to add an add'l op & business office, you are set to begin delivering quality dentistry! Rent only \$1,750 including triple-net! \$128k

#### NORTHERN CALIFORNIA

# E-729 AUBURN - Busy retail shp ctr w/excellent signage & good traffic flow. 1750sf, 4ops. Plumbed for 2 add'l ops \$250k

E-8641 SACRAMENTO-FACILITY Single Story office near county buildings. 2,100+ sf w/ 3 ops & plumbed for 1 add'1 \$50k

E-961 SACRAMENTO -Great opportunity! 12-15 pats/day. Near 2 major thoroughfares. 5ops. \$325K E-969 FAIR OAKS Everyday will be a joy to come to work. Averages 10-15 patients per Office is ~600sf w/2 ops. \$250k

G-751 WILLOWS- Complete remodel ~5 yrs ago. FFS GP. 2350sf /4 ops. Plumbed for 2 add'l. Practice \$50k / Real Estate \$185k

<u>G-875 YUBA CITY</u>-Estab. 30 + years, GP, FFS, 3575sf /9 ops, great location. \$1.63m w/Cerec ~ Assoc Buy-In Op!

G-883 CHICO VICINITY – Quality FFS GP. Attractive Prof Plaza. 1,990 sf w/ 5 ops \$495k

G-975 CHICO ORTHO -Dedicated to providing quality treatment to an appreciative, qualifying Denti-Cal patient base. 25-30 patients per day  $w/\sim 60$  new pats/month. 900 sf  $w/\sim 2$  fully equipped ops  $w/\sim 100$  plumbing for an additional op. \$90k

H-856 SOUTH LAKE TAHOE Over 50 new patients/ mo Respected & Growing! 1568 sf & 4 ops \$325k

#### **SOUTHERN CALIFORNIA**

K-887 ESCONDIDO-Beautifully landscaped dental prof bldg 1,705 sf w/5 ops \$175k

#### **CENTRAL VALLEY**

<u>I-889 MERCED</u>- Heart of town, bustling with activity & foot traffic. 3 ops **REDUCED! \$220k** 

<u>I-923 MODESTO</u> 1495sf/ 4op+1, Newer, All digital. **\$250k** 

<u>I-945 TRACY</u> - Young, growing, highly motivated patient base. 1,300 sf & 4 ops \$350k

#### CENTRAL VALLEY CONTINUED

I-966 MODESTO - Facility The practice newly renovated, w/ professional décor and floor plan. Sparkling, immaculate Office ~ 700sf w/2 ops, \$89k I-9721 STOCKTON -Working on relaxed schedule, Doctor averages 5 pats/day. Dental Professional building complex on major thoroughfare. 1,450 sf w/3 ops. \$75k. Partial Bldg Buy-out available also I-974 MODESTO FACILITY - Dental Prof. Bldg. Reasonable rent/Great lease. Newly Remodeled! Mid-town location in desirable area. ~ 950sf w/3

fully equipped ops \$119k

J-928 ATWATER - Well-established & respected for gentle treatment. Prof Bldg in desirable area.

1,313 sf w/3 spacious ops \$230k

J-943 CLOVIS FACILITY ONLY—This would

J-943 CLOVIS FACILITY ONLY—This would cost more to duplicate! Located in a highly visible shopping center. Office is ~2,098sf w/ 6 ops \$80k

#### SPECIALTY PRACTICES

I-7861 CTRL VLY ORTHO- 2,000sf, open bay w/8 chairs. Garden View. 45 years Goodwill. FFS. 60-70 patients/day. Prof Plaza. \$370k

D-892 MORGAN HILL ORTHO- Remarkable Oppty! Floor to Ceiling windows—wooded court-yard. 1900sf & 6 chairs in open bay. \$275k

H-913 SIERRA FOOTHILLS ORTHO— Strong, loyal base referral base. Practice averages 30 – 60+ pats/day. Pristine, remodeled building w/ ample parking. 2,600 sf w/ 5 chairs/bays \$500k

I-9461 CENTRAL VALLEY/ORTHO - Seller has strong referral base and happy patients! Well-respected for excellent, quality service in this family-oriented community. 1,650 sf w/5 chairs/bays plus (2) additional plumbed. \$140k

E-980 SACRAMENTO VICINITY ORTHO – Phenomenal Multiple Orthodontic Practice Opportunity – Four-in-one! Sold as a cluster of satellite offices in multiple locations, grab this and you will have no regrets! Call for details! \$1.5M

800.641.4179

WPS@SUCCEED.NET westernpracticesales.com



# "DENTAL PRACTICE BROKERAGE"

## Making your transition a reality.

More information is available on our website regarding practices listed in other states, articles, upcoming seminars and more.

For more information regarding the listings below:

VISIT OUR WEBSITE AT: WWW.PPTSALES.COM (Practice Opportunities) Practice Sales • Mergers
Partnerships • Appraisals
Patient Record Sales

- APTOS: For Sale-General Dentistry Practice. Highly desirable location. 2008 Gross Receipts over \$1Mil. w/adjusted overhead at 51%. 3-operatories \$0.00 sq ft. Pano & Modi computerized software. 9-hygiene days per week. Practice operated for past 33 years in same location. Open 5 days a week. Owner willing to work back for new owner 2 days/wk.
- BARSTOW: For Sale-General Dentistry Practice. Gross Receipts \$395K with an adjusted to income of \$193K. Office consists of 1,100 sep 15,74 operatories. Intra-Oral Camera, Dentisoft. Thurs are 3-hygiene days per week. Practice has been in its present location for the past 25 1/2 years.
- BIG BEAR CITY: For Sale-General Dentistry Practice. 26 years at current location. Gross Receipts \$428K. 3-equipped operatories. Doctor owns the building. New lease available or option to purchase. #14345
- **CORONADO:** For Sale-General Dentistry Practice. Gross Receipts in 2010 \$405K. Office space 1,400 sq. ft., 4 operatories, Laser, Intra-Oral Camera. 1,000 active patients. 2 hygiene days a week. Practice has operated in its present location for 40+ years. Owner retiring.
- EL DORADO HILLS: For Sale-General Dentistry Practice.
   2009 GR \$790,758, adjusted of income of \$312K. Intra-oral camera, pano, Softde Conware, 4-equipped ops. 6-hygiene days. Practice has been in its present location for past 18 years. Owner retiring.
- EL DORADO HILLS: For Sale-General dentistry practice. Gross Receipts of \$834K with adj net of \$389K, 53% overhead. Office has five equipped operatories in 1485 sq.ft. Pano, Intra-oral Camera, Dentrix, 5 days of hygiene. Owner retiring.
- FOLSOM: For Sale-General Dentistry Practice. Gross Receipts in 2010 were \$703K with an Edusted net income of \$300K. 5 days of hygiene and approx 1500 active patients. Leased Office is 2,000 sq ft with 4 equipped operatories-5 possible. Patient Base software. Owner to retire.
- FOLSOM: For Sale-General Dentistry Practice 2009 Collections \$513K. Adjusted net income \$184K. 4 ops (plumbed for 5), Intar-oral camera, fiber optics in all ops. Patient base software. Owner retiring.
- FOLSOM: For Sale-General Dentistry Practice. Gross Receipts in excess of 1.5M the past three years. Adjusted Net of \$550K.

- 2,700 sq. ft. office with 7 ops, Digital, Dentrix, Intra-Oral Camera, Laser, 5+year old equipment, 8 days hygiene. Beautiful office, great location. Owner retiring. #14336
- FRESNO: For Sale-General Dentistry IV Sedation Practice. (MERGER OPPORTUNITY) Owner would like to merge his practice into another high quality general dentistry or IV sedation practice. The merger would be into Buyers office. Seller would like to continue to work as either a partner or associate after the merger. 2010 collections were \$993K with a \$422K adjusted net income. There are 7 days of hygiene. #14250.
- GRASS VALLEY: For Sale-General Dentistry Practice.
   2009 GR of \$307,590 (3 days/wk) with adjusted net income of \$105K.
   3 Ops. refers out most/all Ortho. Perio, Endo, Surgery. Intra-Oral Camera, Diagnodent, EZ Dental Software. Good Location. Owner retiring. #14337.
- GRASS VALLEY: For Sale-General Dentistry Practice. Owner retiring. Gross Receipts \$89K. Practice has been in the same location for the past 33 years. 2 equipped operatories, 3-4 available. Panoramic X-ray. Doctor owns building, which is available for purchase. This practice can also be combined with another Grass Valley practice also listed for sale. #14362.
- GREATER CHICO: For Sale-General Dentistry Practice.
   Gross receipts in 2010 were \$584K, with an adjusted net income of \$152K. Approx 1,100 active patients. 4 operatories, Pano, Intra-Oral Camera. Easy dental software.
   Leased office 1,200 sq. ft. Owner is retiring. #14359.
- GREATER FAIR OAKS-SUNRISE AREA: For Sale-Gross Receipts in excess of \$1.1 Million dollars for the past three years. Adjusted net \$450K. 2,400 sq ft office-5 ops. Hygiene days-6, Owner works 32 hours per week. Eagle Soft, Laser, Pano Intra-Oral Camera, fiber optics. Owner retiring, #14343
- GREATER SACRAMENTO: For Sale-Pediatric Practice.
   2010 GR of \$1,095,914, with a 45% overhead. Prevention oriented practice with 2000 sq. ft. Digital office with Dentrix. Equipment is nine years old. Delta Premier is only insurance. Owner retiring.
- GREATER SAN JOSE AREA: For Sale-General Endodontic Practice. 2009 to ections were \$1,187MIL with an adjusted net income of \$696K. There are 4 ops in this

- nicely decoreated 1,400 sq ft office space. 4 microscopes. Owner has been in same location for 26 years with long-term employees. Owner is retiring but will continue to work 1  $\frac{1}{2}$  to 2 years through the transition with the buyer.
- HAWAII (MAUI): For Sale-General dentistry practice. Gross Receipts of \$636K. Office has four equipped operatories in 1198 sq.ft. Pano, Laser, I.O. Camera, Fiber Optics, 2 ½ days of hygiene. Owner retiring: Don't miss this opportunity to live and work in paradise.
- PIRVINE & COSTA MESA: For Sale-General Dentistry practice combined. Gross receipts combined \$781K with adjusted net of \$396K. Both office spaces are leased with 4-5 ops in each. Both are 1,600 sq. ft. Irvine is equipped with Intra-Oral Camera, Pano & Dentrix. Costa Mesa is equipped with Laser, Intra-Oral Camera, Pano and Dentrix. #14355.
- LAGUNA NIGUEL: For Sale-General Dentistry Practice. 2010 gross receipts were \$503k. 4 operatories, Pan, computerized with EZ dental software. 1,500 sq. ft. lease. 10 years in present location. Owner retiring. #14352
- LAKE COUNTY: For Sale-General Dentistry Practice. Gross Receipts 904K with adjusted net \$302K. Practice has been in same location for past 23 yrs, and 25 yrs in previous location. 2,600 sq ft with 8 equipped treatment rooms. Intral-Oral Camera, Pano, and Data Con software. Owner to retire. #14338
- LINDSAY: For Sale-General Dentistry Practice & building. Gross Receipts in 2010 \$330K with adjusted net income of \$219K. Owner has operated in present location for 27 years. Office space 1,489 sq. ft., 3 operatories available (2 equipped), Intra-Oral Camera, Soft-Dent software. 3-hygiene days a week. Owner retiring, #14363.
- LIVERMORE: For Sale-General Dentistry Practice. 2009 Collections were \$688K with apadjusted net income of \$287K. There are 4 ops in this of the sale of the sale
- LOS ANGELES: For Sale-General Dentistry Practice.1,200 sq ft 4ops, 29 yrs in present location. Gross Receipts \$274K with adjusted net income of \$89K. Owner to retire. #14348

#### CALIFORNIA / NEVADA REGIONAL OFFICE

#### **HENRY SCHEIN PPT INC.**

California Regional Coporate Office

#### DR. DENNIS HOOVER, Broker

Office: (800) 519-3458 Office (209) 545-2491
Fax (209) 545-0824 Email: dennis.hoover@henryschein.com
5831 Stoddard Road, Ste. 804 Modesto, CA 95356

#### **Henry Schein PPT Inc., Real Estate Agents**

and Transitions Consultants

Dr. Tom Wagner (916) 812-3255 N. Calif. Mario Molina (323) 974-4592 S. Calif. Hallie Johnson-Nelson (209) 545-2491 N. Calif. Thinh Tran (949) 533-8308 S. Calif.





#### ANOTHER REASON TO HAVE A CURRENT PRACTICE APPRAISAL:

To protect your family in the event of your untimely death just as you do with life insurance and disability insurance. Most families have no idea what your practice is worth or where to find the information needed to determined its value. 50% of all practices, where the dentist has died unexpectedly, go unsold primarily as a result of delays in getting the practice to market.

- practice is 80% Dentical and has approximately 2000 active patients. Owner has operated in tame location for 31 years. 2009 receipts were \$709,000. 6 equipped tx rms, laser, intra-oral camera Pano and Ceph. Open Dent software.
- MODESTO:For Sale-General operatories, 32-years w/adjusted net income of \$346. Dentrix, Cerec, and Intra-OralDentistry Practice.5 Camera. Owner to retire. #14308
- NAPA: For Sale-General Dentistry Practice. Gross Receipts \$800K, with adjusted nex in the of \$250K. Fee for Service. 1300 sq ft 4 ops 6 hygiene days. 38 yrs in present location, 30 yrs in previous location. Owner to retire.
- NEWPORT BEACH: For Sale-General Dentistry Practice. Practice has operated at its present location since 1986. Located in a highly affluent Newport Beach community. Three (3) hygiene days per week. Leased office space with 4 ops. in 1,450 sq. ft. Pano & Practice Works software. #14354.
- NORTHERN FRESNO: For Sale-General Dentistry Practice. This is a perfect starter or satellite practice. Excellent location in North Fresno. Gross Receipt in 2010 were \$173K. Approximately 450 acts patients. 3 operatories. Dentrix software. Leased office 1,200 sq. ft. Owner has been accepted to an Endodontic Residency after starting practice 1 1/2 years ago.
- NORTHERN CALIFORNIA: For Sale-For Sale- Pediatric practice. Owner has operated in same location for 32 years. Approx 1,760 active pts of the program of the progr Digital and Dentrix software in this 5-chair office. 2009 Gross Receipts \$713K with 48% overhead. Owner retiring. Call for Details.
- OCEANSIDE: For Sale-Modern looking office. 4 op, office space and equipment only. Belmont chairs. Gendex x-ray system, intraoral camera, apprex 1000 sq ft. Low overhead-Rent is \$1,900/month, and it sy year lease. Staff is available for rehire-front desk \$15/hr, assistant 13/hr. Update all the computer systems after purchasing the office in 07. Computers and monitors in every room. #14346
- PLEASANTON: For Sale-General Dentistry Practice. Owner has other practice in Bay Area only in Pleasanton 1 day/wk. 300 active patients. Excellent location-beautiful 1600 sq.ft. 5-op office. Equipment like new, intra-oral camera, pano, Easy Dental software. Must See. #14364.

- available for 4th op. 1,245 sf office in good location. Gross Receipts \$475K. Practice in present location over 50 years. Owner is retiring. #14318
- REDDING: For Sale-Owner looking for Assoc. trans. into Partnership w/Buy-Out. GR \$1 Million dollars income \$436K. 5.5 days hygiene, 2,200 sq. ft. #14293
- RENO: For Sale-General Dentistry Practice and Dental Building: 2009 Gross Receipts \$517K with adjusted net income of \$165K. 4 System days/week. 1, 800 sq. ft. with 6 equipped ops. (7 Avail). Dentrix software, Pano. Practice has been in its present location for 40 years. Owner retiring.
- ROCKLIN: For Sale-General Dentistry Practice. Gross Receipts \$593K in 2010 with \$240K adjusted net income. Office is 1,630 sq. ft. with Loperatories equipped with fiber optics. Owner has been in present location for the past 13 years. 3 1/2 days hygiene. Intra-Oral Camera, Dentrix software. Owner to retire.
- ROSEVILLE: For Sale-General Dentistry Practice. Great Location. 2009 GR \$900K with adjusted net income of \$300K. 1,975 sq. ft. with Joh. 8 days hygiene/wk. Digital, Intra-Oral Camera, Dentrix, Trojan, fiber optics, P & C chairs - all less than 5 years old. Owner is retiring. #14327
- SACRAMENTO/ROSEVILLE: For Sale-One of many partners is retiring in this highly successful General Dentistry Group Practice. Intra-Oral Camera, Digital Pano-Dexis, electronic charts, owner Financing. Call for further information. #14334
- SAN DIEGO: For Sale-General Dentistry practice. Gross Receipts \$414K. Practice has been operated by the same owner for the past 6 years. Leased 950 sq. ft. office with 3 equipped operatories. Dentix software, Intra-Oral camera, Panoramic X-Ray. Owner to relocate. #14356.
- SAN DIEGO: For Sale-General Dentistry Practice. 6 ops, Intra-Oral camera, Eagle Soft Software. Office square feet 2,300 with 3 years remaining on lease. 2009 Gross Receipts \$1,448,520, with an adjusted net income of \$545K. Doctor would like to phase out then retire. #14331

- LOS ANGELES: For Sale-General Dentistry Practice: This PLUMAS COUNTY: For Sale-3 equipped ops. Space SANTA BARBARA: For Sale-General Dentistry Practice. This excellent practice's 2009 gross Receipts \$891K with steady increase every year. Practical and days of hygiene. 1,690 sq. ft., 5 ops, Laser, Intra-Oral Camera, Schick Digital X-Ray, Datacon software. Doctor has been practice in same location for the past eleven years of his 31 years in Santa Barbara. Doctor is retiring.
  - · SAN LUIS OBISPO: For Sale-Two Doctor General Dentistry Practice. Gross receipts \$1,537,142 for 2010 with an adjusted net income of \$691K. The office has 2,331 sq. ft. with 8 equipped operatories. Pano, E4D, and Dentrix software. Practice started in 1990 and has been in its present location since 1998. Approx. 3000 active patients. Great location with nice views. #14353.
  - SANTA CRUZ: For Sale-General Dentistry practice. Gross Receipts \$300K with a 57% overhead. Office is 1,140 sq. ft. 3 equipped operatories. In Collar Camera, Pano, Digital X-Rays, and Dentrix software. Practice has been in its present location since 1980. Owner retiring.
  - SANTA CRUZ: For Sale-General Dentistry practice. This excellent practice is centrally located in a professional complex. Office is approx. 1,885 sq. ft., 4 operatories with room for one additional. There are approx. 2000 active patients with 6 days of hygiene per week. Practice Pano, Intra-Oral Camera and Easy Dental software. Owner is retiring. Reasonable lease available. #14361
  - TORRANCE: For Sale-General Dentistry Practice: Owner has operated in same location for 20 years. Approx. 1,000 active patients, 1,080 sq. ft., Bet a bystem, and Camsight software in this 2 equipped, 3 available-chair office. Gross Receipts \$434K with 38% overhead. Owner relocating. #14320
  - TRACY: For Sale-Equipment, furnishings, and leaseholds only. In the Central Valley, Fully equipped including 4 Belmont Accutrac chairs, 2 Midmark of Dr. 6 DCI rear delivery units, 3 Gendex x-ray units, 1 Soridex digital x-ray processor, 1 Statim 5000, 1 Harkey autoclave. 2,800 Sq ft, 6 Ops. New lease available from landlord.
  - VISALIA: For Sale- General Dentistry Practice. Gross Receipts \$616K with an adjusted net incorp of \$ 321K. Office is 1,380 sq ft with 3 equipped of statories, Intra-Oral Camera, Digital X-Rays, Mogo software, equipment & leaseholds look new. 5 years in present location. Owner to relocate. #14347

CALIFORNIA / NEVADA REGIONAL OFFICE





CLASSIFIEDS, CONTINUED FROM 586

#### MODERN FOUR OPERATORY DENTAL BUILDING IN DUNSMUIR FOR SALE OR

**LEASE** — A beautiful mountain setting in Northern California with hunting, fishing and skiing. Building well maintained. Seller motivated, all terms negotiable. Seller would consider forgiving lease/sale payments for first year to help practitioner establish a practice. Present dentist moving out in order to reduce commute driving time. Contact seller at mollyruss@sbcglobal.net or Doris Moss Realty, Brett Waite, Broker, 530-926-3807 or brett@mtshastarealty.com.

**DENTAL JOBS AVAILABLE** — Aspen offers tremendous earning potential and a practice support model that empowers dentists. We eliminate obstacles for dentists to own their own practice. Call 866-745-5155 or visit aspendentaljobs.com. EOE

**OPPORTUNITY AVAILABLE** — A great place for a family to live? A practice with a great income and a future? Family, friends and a community? This is the place. Join our team and be "working together to be better." Try Missouri, you'll like it. Contact Sheila at 573-201-9298.

**OPPORTUNITY AVAILABLE** — Dentist with experience for busy Lawndale clinic. Mail to inquiries Attn: HR, Bay Dental Center, Lawndale, CA 90260 (Job# PS711).

#### **OPPORTUNITY AVAILABLE IN ALBERTA**

**CANADA** — Excellent opportunity in Canada. Full-time, quality minded, detail and patient-oriented associate required for busy practice. State-of-the-art, 3-D digital, offering implants and ortho. Well established, growing practice. Paid on production. New grads welcome. Must have written Canadian NDEB. Email azhrdental@gmail.com.

CONTINUES ON 592







# "MATCHING THE RIGHT DENTIST TO THE RIGHT PRACTICE"

Complete Evaluation of Dental Practices & All Aspects of Buying and Selling Transactions



Serving you: Mike Carroll & Pamela Gardiner

#### 3041 SOUTH BAY GP

Well est. & successful practice in gorgeous state-of-the-art facility located in a most desirable area. Modern equipment updated in 2007 and near paperless office. Equipment includes Gendex digital x-rays, Panorex, Cerec & Dexis. 1,653 sq. ft. facility w/6 fully-equipped ops. Avg. GR for past 5 years 1.6M w/59% overhead. 2010 GR as of Aug. on track for 1.5M+. Quality staff. Long term lease available. This is an outstanding opportunity for the experienced dentist looking for a high quality practice. Asking \$1.3M.

#### **3049 SAN JOSE GP**

Well-located, across from O'Connor Hospital, general practice in 2,118 sq. ft.state-of-the-art facility w/ 3 fully-equipped ops. 2 pvt. offices (1 can be plumbed for 4th op.). This office is beautifully designed and is stunning. In addition to his general practice, owner treats sleep apnea patients. He is selling just the general operative portion of the practice and is willing to help for a smooth transition. Ideal for an experienced dentists looking to merge an existing practice.

#### **3048 SAN JOSE GP**

Owner retiring from a small well-est. practice with great upside potential. 900 sq. ft. office with 3 ops. near near retent. 3 Dr. days/week. Owner willing to help for a smooth transition. Asking \$95K.

#### 3050 EAST SAN JOSE FACILITY

Exceptional opportunity for a beautiful state-of-the-art, first class facility with 8 large ops. & 2 pvt. rooms, in a well traveled area. 1 level shopping center almost fully-equipped office with high visibility signs near E. Capital Expressway and 101. If you want exposure, this is the place to be. Asking \$190K.

#### **3045 VACAVILLE GP**

Turn-key, traditional dental practice with loyal staff and sense of community. Well maintained 900 sq. ft. tastefully decorated office with 2 fully-equipped ops. 2009 GR 224K+, 2010 projected GR as of Aug. \$270K+ with 50% avg. overhead. Owner retiring and willing to help for a smooth transition. Asking \$172K.

#### 3006 MONTEREY COUNTY ORTHO

Est. Ortho practice in 2,668 sq. ft. office with 5 open bay chairs in a professional dental complex. Panorex and Cephlometric X-ray machines. Stable and loyal referral base. Annualized GR as of Oct 2009 are \$335K+. Owner retiring and willing to help for a smooth transition. Asking 227K.

#### 3028 NAPA-SOLANO COUNTY GP

Owner retiring from well-est. practice in 1,400 sq. ft. facility with 5 ops. All fee-for-service pts. with great word-of-mouth reputation. 2009 GR \$731K+, June 2010 FY on schedule for \$771K+ with just 4/doctor-days. Asking \$518K.

#### 3047 WEST SAN JOSE GP

Owner retiring from well-established practice in professional dental building with 3 ops in 950 sq. ft. office. Ideal to tion near O'Connor Hospital, Town & Country Village and Valley Fair Shopping Center. Avg. GR \$169K+ w/60% overhead. Asking \$95K.

#### **3037 PLACER COUNTY GP**

Well est. Placer County General & Cosmetic Practice. 6 fully-equipped state-of-the-art ops., in single story 3700 sq. ft. stand alone professional building. Avg. GR for past 4 years \$1.4M+ with 61% overhead and just 4 doctor-days/week. Asking \$1,134,000.

#### Upcoming:

Santa Cruz County GP & Sonoma County GP









#### Contact Us:

Carroll & Company 2055 Woodside Road, Ste 160 Redwood City, CA 94061

### Phone:

650.403.1010

#### Email:

dental@carrollandco.info

#### Website:

www.carrollandco.info

CA DRE #00777682

CLASSIFIEDS, CONTINUED FROM 590

OPPORTUNITY AVAILABLE IN NORTH-**WESTERN WASHINGTON** — Seeking experienced dentist for busy, established, rapidly growing, fee-for-service group dental practice. Excellent immediate income opportunity (\$180K to \$375K + per year) depending on productive ability and hours worked. Secure long-term position. You can concentrate on optimum patient treatment without practice management duties. Newly equipped, modern office with excellent staff and lab services provided. If you are bright, energetic with a desire to be productive, very personable, people oriented and have great

general and specialty clinical skills, please fax resume to Otto J. Hanssen at 425-484-2110.

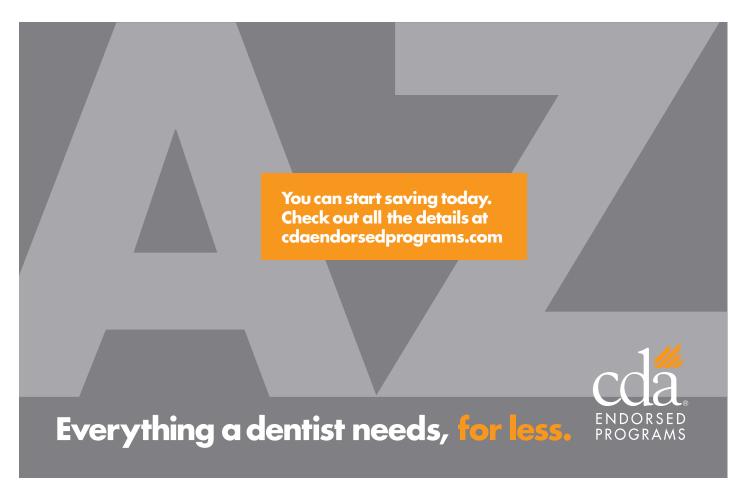
**RELOCATION AND SIGN ON BONUS** OFFERED FOR ARIZONA — Immediate need for a FT Dentist willing to relocate to Glendale Arizona. The office has a steady patient flow, FT Hygienist and excellent earning potential. Doctor must have 3-5 years experience and be proficient in molar endo. Benefits package offered including Malpractice coverage. Please contact Kristin Armenta at 714-428-1305 or fax to 714-460-8564.

# you're looking for a long-term commitment and desire to be productive the opportunity is yours! Seeking full-time, managing dentists to join large group practice in the

SEEKING MANAGING DENTISTS - If

following areas: Los Angeles, Orange County, Inland Empire, San Diego and doctors willing to relocate to Arizona. Steady patient flow in high volume HMO environment. Required: 3-5 yrs experience and proficient in molar endo. Benefits include: medical, dental, vision, 401K, malpractice coverage and competitive pay! For available positions please call: 714-428-1305, submit your resume to kristin.armenta@smilebrands.com or fax to 714-460-8564.

CONTINUES ON 594





## **Professional Practice Sales of The Great West**

**Specialists in the Sale and Appraisal of Dental Practices** 

If you want your practice "For Sale", we are not the firm for you.

If you want your practice "SOLD", contact us!

#### VISIT PPS AT BOOTH 1105 AT CDA IN SAN FRANCISCO

5999	"SOLD" PLEASANTON	Adjacent to Hacienda Business Park.			
	2011 tracking \$900,000.	Strong profits.	Digital radiography		
	with computers in Ops. (	nputers in Ops. Great visibility.			

- **SAN JOSE'S EVERGREEN VALLEY FILIPINO PRACTICE** Near Highway 101 and East Capitol Expressway. Housed in new building and suite. Busy Hygiene schedule. 2011 tracking \$850,000. Strong profits.
- **"SOLD" PINOLE HERCULES AREA** 4-days of Hygiene. 90%+ effective Recall. Produced \$740,000 and collected \$709,500. Low AR balance. Endo referred.
- "SOLD" SAN JOSE'S SANTA TERESA AREA Asking slightly more than what it would cost to replicate this office today. Digital & paperless 3-Op suite. 2010 produced \$385,000 with collections of \$277,000 and Profits of \$190,000+. Gorgeous facility. Lease allows occupancy thru 9/30/2024.
- 6005 FAIRFIELD WEST OF I-80 Seeks full-time Successor. Operating on 2.5 week schedule by Owner with other commitments. Has averaged \$470,000 per year last 3-years. 2-days of Hygiene, 20 new patients/month. Attractive 3-Op suite. High visibility location.

- **STOCKTON** Beautiful office near intersection of West Hammer & Lower Sacramento. Busy retail location. Ideal for nearby Dentist seeking office upgrade or someone with a Business Plan. 4 Ops, digital radiography, computer charting. No goodwill.
- 6008 MENDOCINO COAST FORT BRAGG Nestled in desirable cultural haven creates attractive lifestyle. 4-days of Hygiene. 2010 collected \$695,000. Owner works 3-day week and states he could work more if desired. Computerized Ops and digital radiography.
- 6010 "SOLD" BERKELEY ALTA BATES MEDICAL VILLAGE Attractive revenues. Last 2-years Profits have averaged \$225,000. 2011 doing better!
- **SAN JOSE WEST OF I-280** Long established practice off Saratoga Avenue. Has averaged \$400,000 per year in collections. 3-Ops with 4th available in 1,000 sq. ft. suite.
- **FREMONT** Well established practice as evidenced by 6+ days of Hygiene. Fantastic Recall System. Great location. Collects just shy of \$900,000 per year. Total Available Profits in 2010 were \$360,000. 5-Ops.
- **6013 LIVERMORE** Not yet 4-years old, tracking \$430,000+ in collections 2011. Attractive 4-Op suite fully networked, employs computer charting and digital radiography.

For complete details on any of these opportunities, go to www.PPSsellsDDS.com

### **Professional Practice Sales of The Great West**

Ray and Edna Irving (415) 899-8580 ~ (800) 422-2818 www.PPSsellsDDS.com

Thinking on selling your practice? Call "PPS of The Great West" today.

This shall be the best decision you make regarding this important change in your life!

"I listed with a competitor for 12 months. Had two people visit my practice. First weekend PPS had my listing, I had 3 people visit and an offer by the end of the first week. Thank you for allowing me to move on to the next step of my life."

"It was a pleasure to work with PPS. I had to sell because of health complications. Mr. Irving listed my practice on Jan 1st, we closed escrow on Feb 27th. It took him less than 60 days to complete the sale as promised."

"When I decided to sell my ortho practice, I sought the services of a large company. Over the 12-month contract, I had one buyer visit. Word was out. It had a devastating effect on my bottom line. Fortunately, I found Ray and Edna Irving! When I finally sold, I choose between two good offers. My regret was the time and money lost with the other guys."

"When I signed the Listing on June 1st, Ray stated he would have the practice sold by Labor Day. The sale was concluded on Sept 1st, two days before Labor Day. Wow!"

"I will always remember your statement when I questioned your contract being only four months. You stated: 'If I can't sell your practice in that time, you should get someone else.' Well, you did with time to spare!"

"Before I called Ray, I had a listing with another prominent Broker. After eleven months without a sale, I called Ray. He sold it in about a month! Would I recommend Ray? Yes!"

"In April, I asked Ray Irving to sell my practice. At the same time my friend decided to sell his practice. He employed another firm. My practice sold June 22. My friend's practice still hasn't sold and he was putting his dreams on hold."

PPS of The Great West's reputation is built upon grounded ethics and effectiveness. Our trademark "client services" include accurate assessments, impeccable marketing plans, complete transparency, generating quick responses, realizing multiple Offers, securing 100%+ financing in days, expert papering of our transactions and sound counsel. Everything is done to protect our Client and to effect a successful transfer. Our intent is simply to provide the best service imaginable for this very important engagement.



Paul Maimone Broker/Owner

PRACTICE SALES AND LEASING

Inventory is low. Sellers, it's a Great Time to sell!!

BAKERSFIELD #22 - (5) op G.P. (4) eqt'd. Strip center location with exposure & signage. Collect. ~ \$200K/yr p.t. Next to medical clinic & WIC. Can collect. much more w more hours.

BAKERSFIELD #24 - (4) op computerized G.P. 2 ops eqt'd w 2 additional plumbed not eqt'd. Cash/Ins/PPO pt. base. Collect \$200K+/yr. 3-4 days/wk. In a strip ctr. Seller retiring.

COVINA DUPLEX BLDG. & PRACTICE - (4) op comput. G.P. & Duplex Bldg. (3) ops eqt'd 4th plumbed. Mixed pt base. 2010 Gross Collect \$250K on a 3 day wk. 2,150 sq ft bldg. NEW

GLENDALE #6 – (5) op state of the art comput. G.P. 4 ops eqt'd, 5<sup>th</sup> op plumbed. Digital x-ray & networked. Mixed pt base. In a free stand bldg. Annual Gross Collect.~ \$500K. NEW

NORTHRIDGE - (4) op compt. G.P. Mixed pt. base. 2010 Gross Collect. ~ \$400K. SOLD

No. COUNTY SAN DIEGO - (4) op comput G.P. in a shop ctr. w excell exposure & signage. Cash/Ins/PPO/HMO pts. Dentrix s/w, paperless & digital. Gross Collections \$900K+/yr. NEW

OXNARD #5 BLDG. & PRACTICE – (4) op comput G.P. in a free stand bldg. w a pole sign. On a very busy main road. Mixed pt base. 2011 Project Gross Collect \$447K. NEW

<u>**RESEDA#6**</u> - (3) op comput G.P. located in a well know, easily accessible prof. bldg. Cash/Ins/PPO pts. Annual Gross Collections  $\sim$  \$200K on a p.t. schedule.

<u>SANTA BARBARA #2/GOLETA</u> - (4) op computerized G.P. located in a garden style prof. bldg. <u>w</u> St. frontage. (3) ops eqt'd/4<sup>th</sup> plumbed. Cash/Ins/PPO pt. base. (4) days of hygiene/wk., approx. (20) new pts/mos. Pano eqt'd. Collects. \$400K+/yr. on a (4) day wk. **NEW** 

**SANTA BARBARA #3** - (3) op comput. G.P. in a prof/med/dental bldg. Cash/Ins/PPO. 8-10 new pts/mos Gross Collect. \$250K+ on a (4) day wk. Digital x-ray. Seller retiring. **NEW** 

SANTA CLARITA - (6) op comput. G.P. (4) ops eqt'd. 2011 Project Gross Collect \$370K. Located in a free stand bldg. Mixed pt base. Shares reception w M.D. who refers many new pts.

<u>UPLAND #3</u> - (5) op comput G.P. & Speciality Pract. in a free stand bldg. Gross Collect \$525K-\$625K/yr. Some newer eqt. Digital x-ray. Excell opp. for G.P. who likes to do Endo. **PENDING** 

WEST HILLS - (3) op compt G.P. in a prof. bldg. Newer leaseholds. Cash/Ins/PPO. Digital x-rays & Dentrix s/w. 2010 Gross Collect. ~ \$305K part time. Seller retiring. BACK on MARKET

WESTLAKE VILLAGE #2 - (4) op compt. G.P. (3) eqt'd. Gross Collections ~ \$629K. SOLD WOODLAND HILLS - BUILD TO SUIT MEDICAL & DENTAL SUITES. 1,245 - 4,000 sq ft w generous tenant improvements &/or lease concessions. Located on a major Blvd. NEW

<u>UPCOMING PRACTICES:</u> Camarillo, Corona, Covina, Long Beach, Montebello, Panorama City, Pasadena, SFV, San Diego, Thousand Oaks, Torrance, Tustin, Van Nuys & West L.A.

#### **D & M SERVICES:**

- Practice Sales & Appraisals
- Practice & Equipment Financing
- Expert Witness Court Testimony
- Pre Death and Disability Planning
- Practice Search & Matching Services
- Locate & Negotiate Dental Lease Space
- Medical/Dental Bldg. Sales & Leasing
- Pre Sale Planning

P.O. Box #6681, WOODLAND HILLS, CA. 91365
Toll Free 866.425.1877 Outside So. CA or 818.591.1401 Fax: 818.591.1998
www.dmpractice.com CA DRE Broker License # 01172430

CA Representative for the National Associaton of Practice Brokers (NAPB)

CLASSIFIEDS, CONTINUED FROM 592

#### OPPORTUNITIES WANTED

# IN HOUSE PERIODONTIST/IMPLANT SURGEON AVAILABLE FOR YOUR

PRACTICE — In the Greater San Francisco Bay Area. Implant Surgeon/ Bone Grafting/ Perio Surgery/3rd Molar Extractions. Contact bayareaperio@gmail. com or 617-869-1442.

#### PERIO AND IMPLANTS IN YOUR OWN

**OFFICE** — Experienced in all phases of perio and dental implants placement. Will come to your office. Please call 818-404-5141 or 917-865-1723

#### PRACTICES FOR SALE

COASTAL EUREKA PRACTICE FOR SALE OR LEASE — Family practice in beautiful semi-rural area with fantastic outdoor recreation. Production/collection average 80,000/month with high net, a FFS practice with no capitation and doctor only working 14 days/month. Large loyal patient base would support two dentists. Great growth potential by adding endo, perio, and oral surgery and increasing work schedule. Priced at \$625K. Building available for favorable lease or purchase. Owner considering adding associate dentist while transitioning to retirement. Call after 6pm Pacific Time 707-499-9799.

# DENTAL PRACTICE FOR SALE — WHITE MOUNTAINS OF ARIZONA —

Long established practice. Has weathered the economic storm of the last year near three years intact. I wish to retire. I am 68 years old. The office is 2,000 sq. ft., and has six operatories, fully plumbed and set up. I employ two dental assistants, one hygienist and two front office staff. We have a large inventory of patient records. The office has a reasonable amount of electronic data material and rather modern operatories. It is fully plumbed for nitrous oxide sedation; we use global microscope in endodontics. If interested, please contact me at mountaindental1@ hotmail.com. I will respond immediately.

# PRACTICE FOR SALE...

# ... and have the right buyer?

Lee Skarin and Associates will "Package" your sale efficiently and at low cost.

It's easy when you know how! Knowing how, means doing all of the following—with precision!

- Valid practice appraisal;
- 2. Contract preparation and negotiations, including critical tax allocation consideration:
- 3. Bank financing or Seller financing, with proper agreements to adequately protect the Seller and make the deal close realistically and expeditiously;
- 4. Performance of "due diligence" requirements, to prevent later problems;
- Preparation of all documentation for stock sale, when applicable;
- Lease negotiations;
- 7. With Lee Skarin & Associates, all of the above occurs on your behalf-WORRY-FREE-from beginning to end.

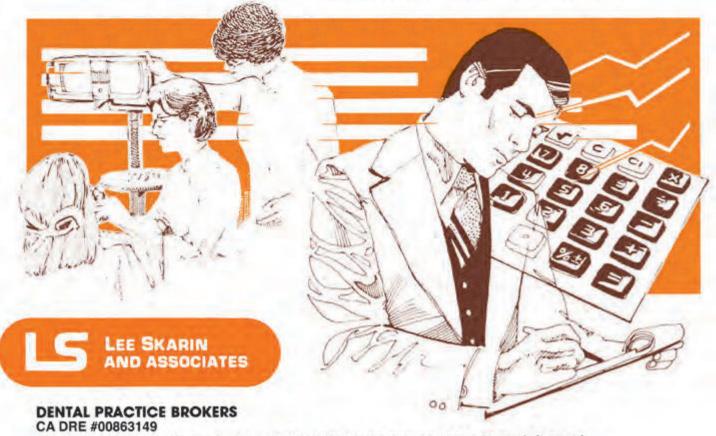
#### ALL SEVEN OF THESE SERVICES COSTS NO MORE. MAYBE **EVEN LESS!**

Lee Skarin & Associates, is California's leading Dental Practice Brokers. Their in-house attorney, Kurt Skarin, Ph.D., J.D., specializes in these matters. He does all of the above, and more. He is the catalytic agent that makes the sale happen, quickly, and smoothly.

# Any Questions? Call Kurt Skarin, now at

(818) 991-6552

Lee Skarin & Associates has scores of Buyers in their computer. The Buyers' profiles in practice interest and financial ability, have been categorized to expertly select the right Buyer for your practice. Expert Buyer selection solidifies a deal, eliminating that overzealousness to sell that can cause lasting harm. Lee Skarin & Associates services all of Southern California from three strategically located offices — one is near you.



Your calls are invited. Put our thirty years experience to work for you!

(805) 777-7707 (818) 991-6552

1-800-752-7461

#### ADVERTISER INDEX

A. Lee Maddox, A Professional Law Corporation	maddoxpracticegroup.com	571
Aspen Dental Management	aspendentaljobs.com	581
California Practice Sales	calpracticesales.net	584
Carroll & Company Practice Sales	carrollandco.net	591
CDA Practice Support Center	compass.com	534-535
D&M Practice Sales and Leasing	dmpractice.com	594
Dawson Academy	thedawsonacademy.com	568
Elite Builders	elitebldrs.com	567
Golden State Practice Sales	925-743-9682	586
Implant Direct	implantdirect.com	537
Lee Skarin and Associates, Inc.	leeskarinandassociates.com	595
Maddox Practice Group	maddoxpracticegroup.com	566
Midwest Dental	midwest-dental.com	565
Professional Practice Sales of the Great West	415-899-8580	593
Professional Practice Transitions	pptsales.com	588-589
Select Practice Services, Inc.	betterobin.com	599
The Dentists Insurance Company	tdicsolutions.com	530,538
TOLD Partners, Inc.	told.com	585
Ultradent Products	ultradent.com	600
Western Practice Sales/John M. Cahill Associates	westernpracticesales.com	579, 583, 587
Wood & Delgado	dentalattorneys.com	586

FOR ADVERTISING INFORMATION, PLEASE CONTACT COREY GERHARD AT 916-554-5304.

#### DR. BOB, CONTINUED FROM 598

Dentists have not slept well since the last amalgam scare combined with the sterilization of handpieces to make insomniacs of us all. Here are a few potential fears you don't want to ignore:

THE RECEPTION ROOM: Have you read all the articles in the magazines in your reception room? What if one of them advocated overthrow of the new health care reforms? Or recommended some cosmetic procedure that resulted in a less than satisfactory result? Fifty million trial lawyers are poised to hold you personally responsible for providing this material to unsuspecting patients.

"Where did you get the idea for moving your ears forward and your eyebrows up?"

"From my dentist's reception room!"
"And setting fire to the Pentagon?"
"Same place."

"The people rest!"

THE BUSINESS OFFICE: Chances are your business office is an ergonomic nightmare ready to inflict everything from carpal tunnel syndrome to a dowager's hump on your employees. This is a test of employee loyalty you cannot afford to take. It would be a mistake not to allot some of your nocturnal wakefulness to this area.

THE LABORATORY: The potential for fear generated by your lab is so immense, you should definitely dismantle it immediately and move it to some remote place, preferably in the next county. The same reasoning applies to wherever you keep your central vacuum and air compressor. All these things rely on a physical principle called "centrifugal force." Once unleashed, centrifugal force is capable like Hurricane Katrina of decimating everything in a 50-mile radius. You don't want to be there.

YOUR PRIVATE OFFICE: Private? Hah! Grand Central Station is private compared to your sanctum sanctorum. Unless you've installed a door that Chase Manhattan could be proud of, your office is as private as the Million Man March.

Chances are your business office is an ergonomic nightmare ready to inflict everything from carpal tunnel syndrome to a dowager's hump on your employees.

Most of the sensitive material you harbor in your sanctuary is capable of spontaneous combustion due to laxity in federal regulations involving the corrupt paper industry. Even though you may have difficulty yourself finding anything on or about your desk, bad people whom you would least suspect will have no problem at all extracting documents that could embarrass you or cause search warrants to be issued by judges antagonistic toward dentists. There is no soporific in the PDR strong enough to counter this.

THE OPERATORY: The operatory, by definition, should be the one place where you are in charge, as much in your element as a goldfish in its bowl. Wrong! Here's where air, water, electricity, vacuum, sharp things, corrosive things, radiation and infection meet in a vortex of anxiety, apprehension and resistance. It is true that over the years we've learned to cope with most of these fears to the point where our anxiety level is no higher than you might experience if accidentally buried alive, but the malady lingers on.

THE FUTURE: The future is here, fore-shadowing the death of private practice. This has been rightly classified as the Fear du Jour. Maybe it will go away. What are the odds? Will mercury fear go away? Will backflow? Will your ulcer? These con-

cerns are expressed in Horseman's Law of Balanced Inertia as "For every moment of perceived tranquility, there is an equal and opposite moment of abject fear." It was on this fundamental axiom that dental societies were formed long ago. Ostensibly to further education and promote camaraderie amongst dentists, the real reason that dental societies continue to flourish is that they provide a forum to exchange mutual fears. There is nothing that allays the worries of a fellow practitioner as much as discovering he is not alone. It would be appropriate to stand before each meeting and sing a variation of that old song:

" ... For your fears are my fears, And my fears are your fears, The more we get together, The more paranoid we'll be."

To further this concept, we should apply to *Mad Magazine* for permission to use Alfred E. Neuman as our mascot, diastema and all, and dump that pathetic little molar that is featured on too much of our literature. Our new motto would then be, "What, me worry?" It's worth a shot.

# Freddy Kruger Isn't Your Worst Nightmare



Dentists have not slept well since the last amalgam scare combined with the sterilization of handpieces to make insomniacs of us all.

Robert E.
Horseman,
DDS

ILLUSTRATION BY DAN HUBIG Where would one go to apply for a job as a "human behaviorist?"

This is a career opportunity my high school counselor failed to mention, otherwise I might have given it some consideration. Apparently it is a position not requiring a facemask or a lot of handwashing. I picture it more as steepled fingers, a corduroyed forehead and a black leather highback chair sort of pursuit.

In any event, human behaviorists are ubiquitous in the press, revealing without provocation that fear, guilt, greed and lust are part and parcel of the human condition. Granted, fear and guilt contribute to the smooth running of society. This is what keeps us from testing a hot iron with our tongues or shoplifting a skill saw from Sears. A lot of people

get credit for being well-behaved simply because they haven't the money to be otherwise. The behaviorists should, in addition, add envy to the list considering how strongly we feel about the obscene salaries paid other people whose sole talent lies in tossing balls through hoops or hitting them with sticks.

You would think every fear — real or imagined — would have been documented by now and the antidotes disseminated so we could successfully avoid the consequences, but new fears are cropping up every 15 minutes now that we are not inconvenienced by having to wait for the morning paper. Nowhere is this more evident than in our own profession where the media love to be the first to spread the alarm.

CONTINUES ON 597

# When you want your practice sales DONE RIGHT.

Dr. Robin's upcoming speaking engagements. Call us for more details.

- > September 11th, 2011 Loma Linda University Dental School; Dental Practice Act.
- September 22nd, 2011 California Dental Association, San Francisco session; Dental Practice Act.
- > October 6th, 2011 Orthodontic Study Club; Dental Practice Act.
- > October 16th, 2011 La Vie En Rose, Brea; Dental Practice Act.
- November 3rd, 2011 Lucianas, Dana Point; Practice Sales & Transitions.
- ➤ January 19th, 2012 Southern California Oral/Facial Study Club; Dental Practice Act.
- ➤ May 3rd, 2012 California Dental Association, Anaheim session; Dental Practice Act.
- ➤ March 4th, 2012 Loma Linda University, Loma Linda; Dental Practice Act.

# BetteRobin, DDS, JD

**DENTIST ATTORNEY BROKER** 

Loma Linda Dental 83 Southwestern Law 95



Select Practice Services, Inc.

Dental Practice Sales and Transitions 877.377.6246 • www.BetteRobin.com 17482 Irvine Blvd.. Ste E • Tustin, CA 92780



