

# DENTAL TRIBUNE

The World's Dental Newspaper · U.S. Edition

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www.dental-tribune.com

## GOOEY BATH, INSPIRED BY NATURE, REMINERALIZES TEETH

Substance similar to an adhesive made by mussels rebuilds tooth enamel and dentin simultaneously.

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## ENDO TRIBUNE

### BOSTON HAS PLENTY FOR ENDODONTISTS

Yankee Dental Congress delivers on education and products for endodontists.

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## HYGIENE TRIBUNE

### ARE YOU READY FOR THE SILVER TSUNAMI?

Aging boomers represent growing wave of demand in oral health care.

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# Best job of 2013: Dentist

*'U.S. News 100 Best Jobs' list also puts dental hygienists in top 10*

By Robert Selleck, Managing Editor

**B**ased on comprehensive analysis of seven components thought to define the desirability of a profession, U.S. News & World Report has determined that for 2013 the best job in the United States is: dentist.

The intent of the report is to provide “an intuitive method to compare professions based on components that matter most: the number of openings, the chance to advance and be professionally fulfilled, and the ability to meet financial obligations.”

With an overall weighted-average score of 8.4 out of 10, the dental profession beat out other top-10 finishers such as physician, pharmacist and software developer.

Another dental-industry profession to make it into the top 10 was “dental hygienist,” at No. 10 overall and No. 6 among health-care jobs.

Heaviest weighting among the seven components examined, at 30 percent, was the category of “median salary.”

A profession's projected growth in the decade ahead received 20 percent of the weighted averages in the rankings. The other components being measured were job prospects (20 percent); unemployment rate (20 percent); stress level (5 percent); and work-life balance (5 percent).

The profession of dentistry scored well across the board. In terms of expected growth, the report said, “The need for professionals to examine our teeth, fill and (in some cases) refill our cavities isn't fading. The Bureau of Labor Statistics (BLS) predicts employment growth of about 21 percent between 2010 and 2020, above the average for all occupations. Work opportunities are especially plentiful for those who work in traditional dentist offices and other health practitioner offices. There should be more than 25,000 new openings in this profession in the next eight years.”

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Themed, 'A Midwinter Night's Dream,' this year's Chicago Dental Society Midwinter Meeting (the 148th) is Feb. 21-23. The meeting ranks as the sixth largest medical meeting in the United States, according to the Healthcare Convention and Exhibitors Association. More than 600 exhibitors display the latest in dental products and services in the event's massive exhibit hall. Photo/By Kasia Biel, www.dreamstime.com

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- Live dentistry, large exhibit hall attracting 30,000 to Chicago
- Pacific Dental Conference: Inspiring program in an unforgettable location
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- Save the date for Greater New York Dental Meeting

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- Research confirms it: Automated reminders reduce no-shows
- DENTSPLY Tulsa Dental Specialties endodontic rotary file system refined
- xpAPce is now going by the name 'Expert Dental CE'
- Commentary: Not all hand-held X-ray systems are created equal
- Visit the BIOLASE Total Technology Pavilion at dental shows this spring
- The latest in scanning technology from i-CAT is the i-CAT FLX
- Glidewell report looks at BruxZir Solid Zirconia and Bridges

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The report included Bureau of Labor Statistics figures that put the 2011 median salary for dentists at \$142,740. The range between higher earners and lower earners was listed as \$187,999 to \$74,490. Differences in geographic location and market population base, were referred to as contributing factors in salary differences. Among the best-paying cities listed for dentists were Rocky Mount, N.C., Asheville, N.C., Tyler, Texas, Abilene, Texas, and Manchester, N.H., each with annual median wages greater than \$250,000.

In summarizing what being a dentist entails, U.S. News reported: "Ever heard the phrase 'Your face is your fortune'? For dentists, our smile is their fortune. They earn their living diagnosing and treating teeth and gums, performing oral surgery, and counseling and educating us on maintaining proper oral health."

#### Dental hygienist profession No. 10

To even be considered for the top-100 list, a profession first had to make the initial cut based on projected growth. And the dental hygiene profession seemed especially strong in that area. The initial 100 jobs were identified based on U.S. Bureau of Labor Statistics for projected number of openings through 2020. Once that batch was isolated, additional data was analyzed to determine the ranking.

Here's how the report summed up projected demand for hygienists: "Employ-

ment for all dental hygienists will swell nearly 40 percent by 2020, which is faster than the average growth rate for most professions. In 2010, there were 181,800 hygienists, and that number should increase by nearly 70,000 new positions."

But it wasn't just growth projections that got the profession of dental hygienist into the top 10 (and No. 6 among

health-care jobs). The profession's income range also ranked high. "Hygienists make a comfortable salary, especially considering that most of those in the profession work part-time. In 2011, their median salary was \$69,280. The best-paid earned \$94,850, and the bottom 10 percent earned \$46,020," U.S. News reported.

The top-10 professions in order from No. 1 through No. 10: dentist, registered nurse, pharmacist, computer systems analyst, physician, database administrator, software developer, physical therapist, web developer and dental hygienist.

The complete U.S. News report can be seen at [www.money.usnews.com/careers/best-jobs/rankings](http://www.money.usnews.com/careers/best-jobs/rankings).

U.S. News & World Report:

## The 100 Best Jobs (Top 10)

### 1. Dentist

(Overall Score 8.4/Median Salary \$142,740)

### 2. Registered Nurse

(Overall Score 8.2/Median Salary \$65,690)

### 3. Pharmacist

(Overall Score 8.2/Median Salary \$113,390)

### 4. Computer Systems Analyst

(Overall Score 8.2/Median Salary \$78,770)

### 5. Physician

(Overall Score 8.2/Median Salary \$183,170)

### 6. Database Administrator

(Overall Score 8.0/Median Salary \$75,190)

### 7. Software Developer

(Overall Score 7.9/Median Salary \$89,280)

### 8. Physical Therapist

(Overall Score 7.9/Median Salary \$78,270)

### 9. Web Developer

(Overall Score 7.8/Median Salary \$77,990)

### 10. Dental Hygienist

(Overall Score 7.7/Median Salary \$69,280)

Photo/Gary Lewis, [www.dreamstime.com](http://www.dreamstime.com)

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# Gooney bath remineralizes teeth

Taking inspiration from nature, scientists are reporting an advance toward preventing the tooth sensitivity that affects millions of people around the world. Their report on development of the substance, similar to the adhesive that mussels use to attach to rocks and other surfaces in water, appears in the American Chemical Society journal, ACS Applied Materials & Interfaces.

Quan-Li Li, Chun Hung Chu and colleagues explain that about three out of every four people have teeth that are sensitive to hot, cold, sweet or sour foods and drinks. It occurs when the hard outer enamel layer on teeth and the softer underlying dentin wear away, stimulating the nerves inside. Some sugar-free gums and special toothpastes can help reduce such tooth hypersensitivity. However, Li and Chu cite the need for substances that re-

build both enamel and dentin at the same time. To meet that challenge, they turned to a sticky material similar to the adhesive that mussels use to adhere to surfaces. They reasoned that it could help keep minerals in contact with dentin long enough for the rebuilding process to occur.

They describe laboratory tests that involved bathing human teeth with worn-away enamel and dentin in liquid containing the sticky material and minerals. Teeth bathed in the sticky material and minerals reformed dentin and enamel. However, teeth bathed just in minerals reformed only enamel. The gooney substance "may be a simple universal technique to induce enamel and dentin remineralization simultaneously," they concluded.

The authors acknowledge funding from a National Natural Science Foundation of



A substance similar to an adhesive made by mussels, such as these clubshells, that enables them to stick to surfaces, shows promise in treating sensitive teeth. Photo/ Stihler Craig, U.S. Fish and Wildlife Service

China Research Grants Council grant, the Outstanding Youth Fund, from the board of education of Anhui province and the Youth Foundation of the Anhui Provincial Natural Science Foundation.

(Source: American Chemical Society)

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# Dentists complete hands-on implants training in Jamaica

*Next five-day AAIP/ADIS course is Sept. 26–30*

The American Academy of Implant Prosthodontics (AAIP) joined with its affiliates, Atlantic Dental Implant Seminars (ADIS) and the Linkow Implant Institute, to present a five-day comprehensive implant training course in Kingston, Jamaica, from Jan. 13–17.

The course included lectures, surgical and prosthodontic demonstrations, hands-on participation on cadavers and

anatomic manikins, diagnosis and treatment planning of implant cases, the construction of surgical templates, diagnostic wax-ups, the insertion of implants by each participant and sinus lifts under supervision of the course faculty.

The six participating dentists inserted 45 implants, performed five sinus lifts, completed four guided bone-regeneration procedures with immediate implant

placements, and made multiple impressions of various implant situations with a variety of impression materials and techniques. Patients were provided by the Jamaican Ministry of Health and the University of Technology, School of Dental Sciences, Jamaica.

Course participants were from Illinois, Jamaica, New Jersey and Texas. Upon completion of the one-week comprehensive implant training program, participating clinicians are able to accomplish the fol-



Dr. Mike Shulman demonstrates an implant procedure to dentists at the AAIP/ADIS implant seminar. Photos/Provided by AAIP

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lowing tasks: identify cases suitable for dental implants; diagnose and treatment plan for preservation and restoration of edentulous and partially edentulous arches; demonstrate competency in the placement of single-tooth implants, soft-tissue management, and bone augmentation; obtain an ideal implant occlusion; work as part of an implant team with other professionals; and incorporate implant treatment into private practice with quality results, cost effectiveness, and profitability.

#### Worth 35 C.E. credits

A dental degree was required for all participants. The course is tax deductible and 35 hours of dental continuing education credits was awarded on course completion. Patient treatment is provided in a Jamaican dental school with personalized training in small-group settings. The course is a cooperative effort of the Jamaican Ministry of Health, the University of Technology, School of Dental Sciences, Jamaica and the American Academy of Implant Prosthodontics.

Dr. Mike Shulman is course coordinator, Dr. Leonard I. Linkow is course director, and Dr. Sheldon Winkler is course advisor. Course faculty, in addition to Drs. Shulman, Linkow, and Winkler, include Drs. Robert Braun, Ira L. Eisenstein, E. Richard Hughes, Charles S. Mandell, Harold F. Morris, Peter A. Neff, Robert Russo and Robert E. Weiner.

Implants and components for AAIP/ADIS implant seminars are provided by HIOSSEN Dental Implants. Dental laboratory support is provided by DCA Laboratory, Citrus Heights, Calif., Dani Dental Studio, Tempe, Ariz., and Dutton Dental Concepts, Bolivar, Ohio.

The next AAIP/ADIS implant seminar in Jamaica is scheduled for Sept. 26–30. Complete information can be obtained from the course website at [www.adiseminars.com](http://www.adiseminars.com), or by calling (201) 788-7663.

#### 30th Annual AAIP meeting

The AAIP held its 30th annual meeting on Saturday, Nov. 3, in Carefree, Ariz., at the

Carefree Resort & Conference Center, in association with the Dental Implant Clinical Research Group and Midwestern University College of Dental Medicine.

The theme of the meeting was "Implant Update — 2012," and it featured a number of top dental clinicians. Podium speakers at the meeting were Drs. Robert J. Braun, Edward M. Feinberg, Leonard I. Linkow, Harold F. Morris, Paul M. Mullasseril, William D. Nordquist, and Christopher Torregrossa. Dr. M. Joe Mehranfar was general chairperson of the meeting and Dr. Mahmoud F. Nasr served as moderator.

Major dental implant manufacturers and several outstanding dental laboratories exhibited at the meeting

Dr. Leonard I. Linkow, considered by many of his colleagues as the "Father of Oral Implantology," presented "Five Decades of Dental Implants." In 1992, New York University College of Dentistry created the first and only endowed chair in implantology in perpetuity with Dr. Linkow as the recipient.

Dr. Robert J. Braun, professor of oral and maxillofacial pathology, medicine and surgery at Temple University School of Dentistry, Philadelphia, spoke on "Systemic Implications of Oral Disease and its Relation to Oral Implantology."

Dr. Edward M. Feinberg, director of the Westchester Academy of Restorative Dentistry, spoke on "The Precision Attachment Case for Implants."

Dr. Harold F. Morris, co-director of the Dental Implant Clinical Research Group and clinical professor of restorative dentistry at Temple University School of Dentistry, Philadelphia, covered "Recent Advances in Implant Research."

Dr. Paul M. Mullasseril, associate professor and chairperson of the division of restorative dentistry at the University of Oklahoma Health Sciences Center, discussed "Mini Dental Implants — Where Are We Today?"

Dr. William D. Nordquist, who lectures worldwide and performs live-surgery seminars in the United States and countries across Asia, discussed "Saving Ailing and Failing Implants."

Mr. Christopher Torregrossa, director of the dental practice group at Price Kong CPAs and Consultants, covered "Protecting Your Practice From Theft and Embezzlement."

Dr. Irving F. McKenzie, interim dean of the school of oral health sciences, University of Technology, Jamaica, was awarded his AAIP Mastership and a plaque for his assistance with and participation in AAIP/ADIS implant C.E. seminars in Jamaica.

**About the Academy of Implant Prosthodontics**

Founded by Dr. Maurice J. Fagan, Jr., in 1982 at the School of Dentistry, Medical College of Georgia, the Academy of Implant Prosthodontics exists to support and foster the practice of implant prosthodontics as an integral component of dentistry.

The academy supports component and affiliate implant associations around the world, including organizations in Egypt, France, Italy, Israel, Jamaica, Jordan, Kazakhstan, Paraguay, Russia and Thailand.

The academy has published two textbooks, "The Dental Implant" in 1985 and "Implant Prosthodontics" in 1990. The Journal of Oral Implantology is the official publication of the academy. The academy also publishes a newsletter.

American Academy of Implant Prosthodontics is designated as an Approved

PACE Program Provider by the Academy of General Dentistry. The formal continuing education programs of this program provider are accepted by AGD for fellowship, mastership and membership maintenance credit. The current term of approval extends from Jan. 1, 2010 to Dec. 31, 2013.

**Learn more online**

Complete information on the AAIP/ADIS Jamaica implant continuing education programs, including tuition, faculty lectures, transportation and hotel accommodations, can be obtained from the course website, [www.adiseminars.com](http://www.adiseminars.com), or by calling (201) 788-7663.

AAIP membership information can be obtained from the AAIP headquarters at 8672 East Eagle Claw Drive, Scottsdale, AZ, 85266-1058; telephone (480) 588-8062; fax (480) 588-8296; email [swinkdent@cox.net](mailto:swinkdent@cox.net). The AAIP website is [www.aaip.usa.com](http://www.aaip.usa.com).

(Source: AAIP)



Clockwise, from top:  
 • At the AAIP annual meeting, Dr. Sheldon Winkler, from left, presents an award to Dr. Irving McKenzie, interim head, school of dental sciences, Kingston, Jamaica.  
 • AAIP/ADIS Jamaica Clinical Director Dr. Eugenia Hines, from left, and course coordinator Dr. Mike Shulman.



• Dr. Leonard Linkow, from left, and AAIP President Dr. Sheldon Winkler at the AAIP annual meeting at the Carefree Resort & Conference Center in Arizona.

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America's second city hosts the Chicago Dental Society Midwinter Meeting. The event includes an exhibit hall with more than 600 exhibitors. Photo/By Kasia Biel, [www.dreamstime.com](http://www.dreamstime.com)

# Live dentistry, large exhibit hall pulling 30,000 to Chicago

*Chicago Dental Society Midwinter Meeting, Feb. 21–23, is one of the nation's biggest*

An agenda packed with more than 200 scientific sessions is expected to attract more than 30,000 dentists and other dental professionals to the 2013 Chicago Dental Society's Midwinter Meeting, Feb. 21–23, at the McCormick Place West Building in Chicago.

Between 2,500 and 4,000 people are expected to register onsite between 7:30 a.m. and noon each of the first two days of the meeting. Event organizers try to accommodate these attendees; however, long lines are inevitable. Because of that, The Chicago Dental Society urges attendees to register early, preferably online, which is available through Feb. 15. Visit [www.cds.org](http://www.cds.org) for details and to register.

The Midwinter Meeting ranks as the sixth largest medical meeting in the United States according to the Healthcare Convention and Exhibitors Association.

Social events include the Blue Man Group (following the welcome reception), a fashion show and luncheon, the band Cheap Trick on Friday night and the President's Dinner Dance at the Grand Ballroom of the Hilton and Towers Hotel, with Don Cagen and his orchestra.

The exhibit hall, with more than 600 exhibitors, is open from 9 a.m. to 5:30 p.m., all three days of the meeting.

The Chicago Dental Society is an ADA/CERP-recognized provider. Continuing education credit can be earned for courses completed at the meeting.

#### New for 2013

After a hiatus, CDS is bringing back a popular Midwinter Meeting event: the New Dentist Reception. New dentists (those who have been a dentist for 10 years or less) are invited to gather together at a special reception from 4:30 to 6 p.m. Friday, Feb. 22, in the Level 2, 260 Restaurant at McCormick Place West. Enjoy good food, refreshments and conversation with your contemporaries — all for \$10.

#### History of the meeting

The crown jewel of the CDS, the annual Midwinter Meeting started on Feb. 1, 1865, when CDS members gathered at S.S. White Dental Depot for the first-ever Midwinter Meeting. Their stated purpose was to disseminate dental information and advance the profession of dentistry. Over the years, the meeting has grown into one of the largest dental exhibitions in the United States with a world-class scientific program.

#### About the Chicago Dental Society

Established in 1864, Chicago Dental Society counts more than 4,000 members in the Chicago area. It is an advocate for better oral health for all and is the organizer of the annual Midwinter Meeting, one of the top medical trade shows in the country. It is the largest local affiliate of the Illinois State Dental Society and the American Dental Association.

(Sources: Chicago Dental Society)

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# Inspiring program, memorable locale

## *Pacific Dental Conference, March 7–9, Vancouver*

The 2013 Pacific Dental Conference, March 7–9 (Thursday, Friday, Saturday), in Vancouver, British Columbia, features timely C.E. programming, open sessions, hands-on courses and other educational opportunities for the entire dental team. One registration fee provides access to all 190 open sessions. That means no course pre-selection is necessary.

With 136 speakers presenting this year on a wide range of topics, the PDC provides the widest selection of quality continuing education programming in Western Canada.

Top speakers in the 2013 line-up include: Barbara Bancroft, Nasser Barghi, Cathia Bergeron, Marvin Berman, Anthony (Rick) Cardoza, Clayton Chan, Cliff Ruddle, Arthur DiMarco, Kathy B. Bassett, Jeff Coil, Timothy Donley, Robert Gerlach, Peter Jacobsen, Mahesh Nagarajan, Tricia Osuna, Ray Padilla, Geza Terezhalmay, Richard Young and Bethany Valachi.

You can browse through speakers' biographies and presentation descriptions at [www.pdconf.com](http://www.pdconf.com).

### Live Dentistry Stage returns

The Live Dentistry Stage is back on the exhibit hall floor, with demonstrations throughout the day on Thursday and Friday. Topics include Laser Dentistry, Guided Full Arch Implant Placement, CAD/CAM Ceramic Restoration, Implant with Sinus Surgery and Botox Demonstration.

The 'So You Think You Can Speak?' series is back for a fourth year on Saturday, again featuring 50-minute presentations by speakers who responded to the call for presentations and were accepted by the PDC Scientific Committee. A number of trending dentistry topics will be covered.

The conference's ever-expanding exhibit hall promises to keep you busy as ever this year, with more than 276 companies occupying more than 570 booths.



Completed in 2009, the 1.5-megawatt Leitwind LTW77 wind turbine at the top of Grouse Mountain in North Vancouver can supply the ski resort at its base with enough power to offset 25 percent of the resort's annual energy needs, enough electricity to power 400 homes. 'The Eye of the Wind' is the world's only wind turbine with a public observation deck — open year-round, depending on weather conditions.

Photo/Provided by Grouse Mountain

Exhibit hall hours are: Thursday, March 7, 8:30 a.m. to 6 p.m. and Friday, March 8, 8:30 a.m. to 5:30 p.m.

Dentists and their team can take advantage of special hotel rates available to PDC attendees. Event organizers advise you to book early to avoid disappointment. Reservations can be made directly with conference hotels by following the links at [www.pdconf.com](http://www.pdconf.com).

After the conference, be sure to enjoy some of the area's attractions. Skiing is available just across Vancouver Harbour at Grouse Mountain, which, if the weather cooperates, also has the world's only public observation platform on a wind turbine. The 1.5 megawatt turbine can supply 25 percent of the ski resort's energy needs.

(Source: Pacific Dental Conference)

# Get social in Seattle

## *AACD 2013 promises networking, camaraderie*

For those who love attending dental conferences for the camaraderie and networking opportunities, AACD 2013 in Seattle will offer several social events to help members connect with other dental professionals.

The American Academy of Cosmetic Dentistry (AACD) will host AACD 2013 April 24–27 in Seattle at the Washington Convention Center. In addition to assembling a top lineup of dental educators, organizers are offering a number of social events.

"One of the things that sets the AACD's conferences apart from other meetings is our incredible social events," said Ron Goodlin, AACD president. "Being social at

AACD 2013 is almost as important as attending workshops and lectures. Connecting with like-minded professionals and being inspired by their work enhances your perspective on the field. Networking opportunities in Seattle are everywhere — and they're a valuable part of your conference experience."

To kick off this year's annual meeting, AACD will host an evening Welcome Reception on April 24 at the Experience Music Project (EMP) museum, which is located at the base of the Seattle Space Needle. The reception is included in attendees' tuition.

At the EMP, attendees will have a chance



The American Academy of Cosmetic Dentistry conference, April 24–27, at the Washington State Convention Center in Seattle, will offer hands-on workshops and lectures and give attendees the opportunity to earn up to 24 certified continuing education credits.

Photo/By Joy Prescott, [www.dreamstime.com](http://www.dreamstime.com)

to meet friends, enjoy refreshments, relax, and learn about music's impact throughout history. The EMP will help attendees explore musical revolutions from jazz to blues, to the birth of rock and hip-hop.

On April 25, the AACD Charitable Foundation hosts the Celebration of Smiles fundraiser, which benefits the AACD Charitable Foundation's Give Back a Smile program. GBAS helps restore the smiles and lives of domestic violence survivors with help from volunteer dentists and dental teams.

Celebration of Smiles will be hosted at the Tap House Grill, which is walking distance from the Washington State Convention Center. The Tap House is a Seattle staple that

offers more than 160 beers on tap, including local craft brews. Wine and cocktails are also available. Tickets for the event can be purchased through the online registration system at [www.aacdconference.com](http://www.aacdconference.com).

In addition to the main events, there are other opportunities to be social in Seattle. The AACD also hosts daily breakfasts and lunches in the exhibit hall.

For a complete schedule of events at AACD 2013, visit [www.aacdconference.com](http://www.aacdconference.com). Registration and course selection are open. For a \$150 discount, register by April 5.

(Source: American Academy of Cosmetic Dentistry)

# Save the date for Greater New York Dental Meeting

Final attendance for the 88th annual Greater New York Dental Meeting came in at 53,481, of which 18,305 were dentists representing all 50 states and 130 countries. The meeting is the largest dental meeting in the United States.

The meeting opened in the Jacob K. Javits Convention Center four weeks after Superstorm Sandy cut a path of destruction across the U.S. Eastern Seaboard.

The Javits Center experienced exten-

sive flooding on its lower level, but an around-the-clock effort had it open in time for the meeting. The GNYDM was packed with its usual vast array of the latest in technologies, resources, products — and an extensive agenda of educational opportunities.

Meeting organizers report that the reaction from attendees, exhibitors and sponsors was unanimous: Not only were the exhibit floor, clinicians and network-

ing events well received, but sales opportunities were described as being unprecedented.

Planning is under way for the 2013 meeting, Nov. 29 through Dec. 4 (scientific meeting) and Dec. 1 through Dec. 4 (exhibit hall). The GNYDM is sponsored by the New York County Dental Society and Second District Dental Society.

The high-energy event, which never has a pre-registration fee, draws top den-

tal professionals with an expansive exhibit hall and more than 300 educational courses, including full-day and half-day seminars, essays, hands-on workshops and a live, 430-seat, high-tech patient demonstration area.

Free registration is now open for 2013 at [www.gnydm.com](http://www.gnydm.com).

(Source: Jayme McNiff, Greater New York Dental Meeting)

# Safe, accurate, simplified sinus-lift technique for general practitioners

*Part 2: Introduction of surgical technique combining CAD/CAM surgical guides with hydraulic intracrestal approach sinus lift*

By Virgilio Mongalo, DMD, and Jae Chang, DDS

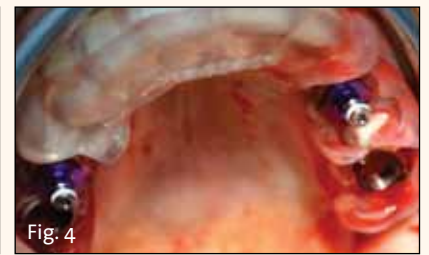
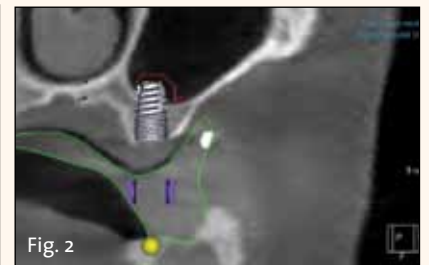
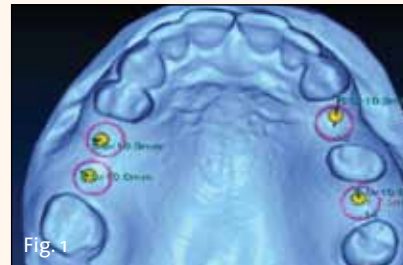
In Part 1 of this three-part series, published in the November 2012 Dental Tribune U.S., we presented a sinus lift technique involving hydraulic pressure to elevate the floor of the maxillary sinus. Many respected clinicians and researchers have taken the task to compare the effects as it is related to a percentage of sinus perforation using existent intracrestal sinus lift techniques. These proven surgical techniques include the use of osteotomes (Summers — and its multiple variations), balloon lift, hydraulic sinus condensing technique (Chen and Cha) and motor-driven drilling systems. Scientific articles published in 2012 by Loma Linda School of Dentistry (Garbacea and Lozada ) and the Department of Periodontics and Oral Medicine, University of Michigan School Dentistry (Chan and Avila), assessed crestal sinus floor elevation using cadaver heads and endoscopes to study the incidence of maxillary perforations. Both studies concluded that perforations can occur with any technique but are more likely to

happen when the membrane is raised past the 10-mm mark measured from alveolar crest. A recent prospective study published in 2012 by the Division of Prosthetic Dentistry, Maxillofacial Unit in Sweden (Fornell and Johansson) presented a CBCT-guided osteotome sinus elevation technique that shows improvement over conventional techniques in that there is decrease in the percentage of perforations.

The purpose of this article is to introduce a surgical technique that combines planning and drilling using CAD/CAM surgical guides with hydraulic intracrestal approach sinus lift. This technique is a combination of creative thinking from the authors and innovative instrumentation developed by Hiossen Implant Systems.

Four patients were treated using this technique; 20 taper-hydrophilic implants (Hiossen ET-III) were inserted and integrated over a period of six months. Two patients were par-

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