OFFICIAL ICOI PREVIEW

Implant Tribune

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

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ICOI takes Toronto

Spring Implant Symposium takes place in late April

By Sierra Rendon, Managing Editor

The ICOI will be holding its Spring Implant Symposium at the Sheraton Centre in downtown Toronto, Canada, from April 27–29.

The Sheraton Centre hotel is located in the heart of Toronto, cheek-by-jowl to the financial and theater districts and sits on top of Toronto's famous massive underground shopping mall, the PATH.

The Sheraton is conveniently located near museums and Toronto's professional sports arenas.

The scientific program was designed by Dr. Natalie Wong with assistance by her committee members, Drs. Blake Nicolucci and Yvan Poitras. The full 2½-

▸ See ICOI, page C2

Photo/www.sxc.hu

Research: New coating appears to accelerate the fixation of implants

By Dental Tribune International

Researchers from Linköping University in Sweden have successfully tested a new drug coating on humans that allows titanium implants to adhere to the bone better and more rapidly. The findings could benefit patients with difficulty chewing after dental treatment.

After the dental implant placement, many patients are unable to chew food as before. Using the current technology, it may take four to six months before the bone surrounding the implant has healed and is strong enough for the patient to truly begin to benefit from surgery.

Linköping University in Sweden

Photo/www.sxc.hu

The new coating consists of a nanometre-thin layer of protein that adheres to the metal surface. Attached to the protein is a drug belonging to the class of bisphosphonates, usually used to treat osteoporosis.

Now, for the first time, this method has been tested on humans. The study involved 16 patients. Each of them received two implants — one ordinary implant and one surface-treated implant as described above.

Neither the patient nor the dental surgeon knew which was which. After six months, it was noted that for 15 of the 16 patients, the surface-treated screw was much better established. After only two months, X-ray images showed positive changes in the tissue surrounding the surface-treated implants. According to the researchers, no complications occurred.

"It is the first time ever anyone has succeeded in reinforcing the bone around an implant with localized medication," said study leader Per Aspenberg, professor of orthopaedics, who devised the method of using bisphosphonates Linköping University in Sweden the method.

The study was published online in the Bone journal.

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day program is as follows:

Friday, April 27

"When Do We Use Digital Imaging to Enhance Implant Therapy?"

Session host: Dr. Blake Nicolucci

1 to 1:15 p.m.: Drs. Ken Judy, Carl Misch and Blake Nicolucci, Opening Ceremony

1:15 to 2:15 p.m.: Dr. Michael Pikos, "Cone Beam CT: The Value of Pre- and Post-Graft Scanning for Implant Reconstruction"

2:15 to 3:15 p.m.: Dr. George Mandelaris, "Clinical Myths and Realities of Computer-Guided Implant Therapy"

3:15 to 3:45 p.m.: Break with exhibitors

3:45 to 4:45 p.m.: Dr. Richard Nejat, "Computer-Guided Surgery and CAD/CAM Technology: Computer-Generated Surgical Guides with Extractions and Immediate Provisionalization"

4:45 to 5:45 p.m.: Dr. Natalie Wong, "Destination ... Digital! From Plans, Scans and Now Digital Impressions"

6 to 7:30 p.m.: Tabletop and Poster Presentations and Welcome Reception

Saturday, April 28: morning session

"What a Restorative Dentist Should Know About Implant Surgery"

Session host: Dr. Scott Ganz

8:30 to 9:30 a.m.: Dr. Bach Le, "Avoiding and Managing Esthetic Complications Associated with Implant Therapy"

9:30 to 10:30 a.m.: Dr. Avi Schetritt, "Implant Design: Healing Prosthetic Consequences"

10:30 to 11 a.m.: Break with exhibitors

11 a.m. to 12 p.m.: Dr. Carl Misch, "Sequence of Treatment for Esthetics in the Pre-maxilla of Implant Prostheses"

12 to 1 p.m.: Lunch with exhibitors

Saturday, April 28: afternoon session

"What a Surgeon Should Know About Implant Prosthetics"

Session host: Dr. Natalie Wong

1 to 2 p.m.: Dr. Scott Ganz: "The Impact of Implant Placement on Abutment Design for Screw-Retained and Cementable Restorations: Who Makes the Decisions?"

2 to 3 p.m.: Dr. Joseph Kan, "Prosthetic Driven Esthetic Anterior Implant Surgery"

3 to 3:30 p.m.: Break with exhibitors

3:30 to 4:30 p.m.: Dr. Barry Goldenberg, "The Ideal Partnership to Successful Implant Prosthodontics: Each One's Role from Diagnosis to Treatment Through Maintenance"

4:30 to 5:30 p.m.: Dr. Ken Hebel, "Effective Comprehensive Treatment Planning and Consultation for Restorative and Implant Dentistry"

6 to 7 p.m.: Awards ceremony

Sunday, April 29: morning session

"Emerging Surgical Techniques to Enhance Treatment Outcomes"

Session host: Dr. Yvan Poitras

8:30 to 9:30 a.m.: Dr. Blake Nicolucci, "Pre-implant Bone Manipulation"

9:30 to 10:30 a.m.: Dr. Yvan Poitras, "Alternate Treatment Plans and Their Prognosis in Implant Dentistry"

10:30 to 11 a.m.: Break with exhibitors

11 a.m. to 12 p.m.: Dr. Stephen Wallace, "Changing Paradigms in Maxillary Sinus Elevation"

12 to 1 p.m.: Lunch with exhibitors

Sunday, April 29: afternoon session

"Emerging Prosthetic Techniques/Procedures to Augment Implant Outcomes"

Session host: Dr. Dwayne Karateew

Dr. Natalie Wong helped create the program for the ICOI's Spring Symposium.

1 to 2 p.m.: Dr. Murray Arlin: "Surgical Risk Factors and Complications — How to Treat and How to Avoid Them"

2 to 3 p.m.: Dr. Jamie Lozada, "Benefits of Provisional Restorations for Immediate Loading Protocols"

3 to 3:30 p.m.: Break with exhibitors

3:30 to 4:30 p.m.: Dr. Dwayne Karateew, "Prosthetic Strategies to Enhance Peri-Implant Soft Tissue Esthetics"

ADIA program

ICOI's component society, the Association of Dental Implant Auxiliaries (ADIA), will be holding a 1½-day program for hygienists, dental assistants and front office staff members. In addition to the Friday afternoon program, the ADIA will on Saturday give certification courses for these three areas of the dental practice. The program is as follows:

Friday, April 27

1 to 1:15 p.m.: Introductions

1:15 to 2:15 p.m.: Carla Fray, "Transforming and Growing Your Dental Team"

2:15 to 3:15 p.m.: Gisèle Choquette: "Successful Lifelong Oral Hygiene with iTOP Technique"

3:15 to 3:45 p.m.: Break

3:45 to 4:45 p.m.: Yva Khalil, "Aesthetics Perceptions"

4:45 to 5:45 p.m.: Audree Beaudin, "Understanding Biomaterials"

Certification programs

Saturday, April 28

(Please choose one program.)

Programs are conducted simultaneously in three different rooms. (10 a.m. to 10:30 a.m break; 12:30 to 2:30 p.m lunch; and 3:30 to 4 p.m. break)

8 a.m. to 6 p.m.: Audree Beaudin and Yva Kha, "Dental Hygiene Implant Certification Program" (DHICP)

Includes: rationale for dental implants; classification and definitions of dental implants; contraindications; implant/tissue interfaces; assessment, diagnosis and treatment planning; implant surgical and prosthodontic procedures; maintenance and evaluation procedures; management of implant complications and failures.

8 a.m. to 6 p.m.: Vavi Bohbot and Carla Frey, "Dental Assisting Implant Certification Program" (DAICP)

Includes: classification and definitions of dental implants; indications and contraindications; biomechanics and biomaterials; client evaluation, assessment and selection; treatment planning, site selection and implant selection; implant complications and failures; surgical templates and stents; pharmacology and sedation; surgical preparation and infection control; surgical procedures; sinus lifts, bone grafts, tissue regeneration; prosthetic procedures; provisional prostheses and fabrication of temporaries; and laboratory considerations.

8 a.m. to 6 p.m.: Karen Young, "Practice Management Implant Certification Program" (PMICP)

Includes: terminology and definitions; case presentation and handling objections; commonly asked questions and appropriate responses; fee presentation; financial options and arrangements; risk management, documentation and record keeping; practice plans and marketing; referrals; intra/inter-office communications.

C.E. credits will be given to both the clinicians and auxiliary attendees.

On Friday morning, April 27, Nobel Biocare and the Misch Institute will give pre-symposium workshops. Details of these two workshops appear below.

Nobel Biocare course

Time/day: 8 a.m. to noon Friday

Course fee: Free

Attendance is limited. First come, first served.

Dr. Anastasia Cholakis: "Delayed Implant Treatment Complications — Prevention and Treatment"

This seminar will review some delayed implant treatment complications such as hard- and soft-tissue loss. Peri-implant mucositis, soft-tissue recession or dehiscences and peri-implantitis will be discussed as well as preventive measures and treatment modalities. An in-office implant maintenance protocol will be outlined to assist in the monitoring of the peri-implant tissues.

At the end of this seminar, the participant should be able to :

- Identify soft- and hard-tissue complications
- Adopt preventive strategies
- Have an understanding of some current treatment modalities
- Implement an in-office peri-implant maintenance program

Misch Implant Institute course

Time/day: 9 a.m. to noon Friday

Course fee: $395

Attendance is limited. First come, first served.

Dr. Carl E. Misch: "Key Implant Position and Implant Number for Fixed Prostheses"

In every treatment plan for missing multiple teeth there are key implant positions, which are more important, related to biomechanics. There are four guidelines to determine these positions:

- No cantelivers
- No three-adjacent pontics
- The canine and first molar rules
- Arch dynamics

Cantilevers are force magnifiers. Three adjacent pontics not only overload the adjacent abutment, the flexure of the metal is 27 times the flexure of a one-pontic prosthesis. The canine and first molar are key positions for an arch and, whenever missing, should be replaced with an implant (rather than a pontic). Arch dynamics (especially for a maxilla) require the structure to be considered as a five-sided open pentagon. At least one implant in each section is required for each edentulous segment.

Once these key positions are determined, the additional implants required to restore the patient are considered based upon patient force factors and the bone density in the edentulous sites.

Delegates to this symposium should take advantage of these pre-symposium courses for additional C.E. credits.

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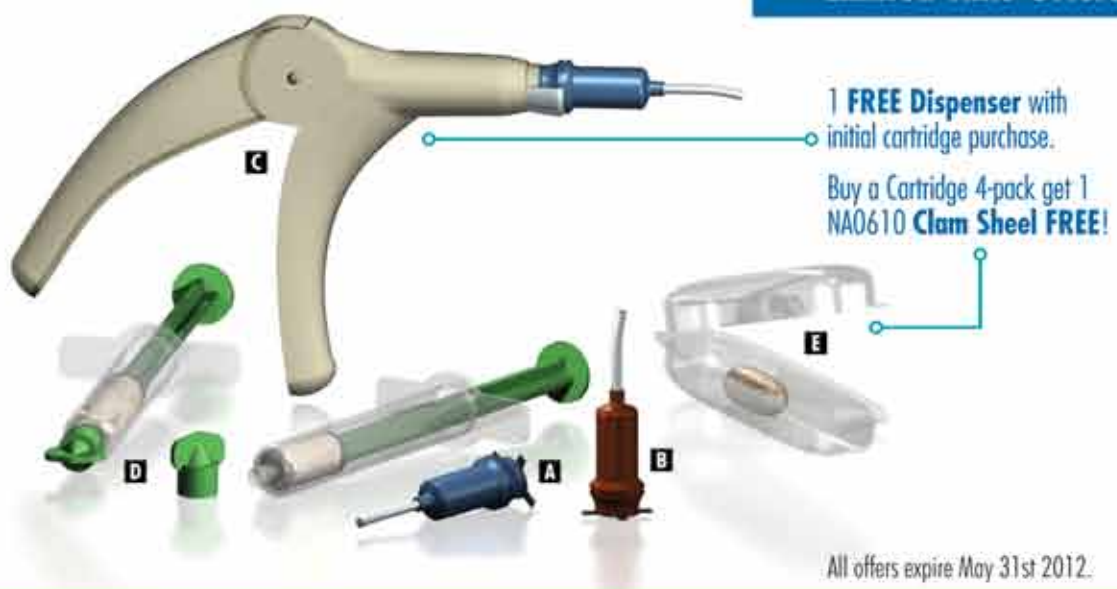

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TRINON COLLEGIUM PRACTICUM

Trinon Collegium Practicum: practical implantology courses for clinicians

Continuing education in dental implantology has traditionally focused on theoretical aspects. However, since 2003, the Trinon Collegium Practicum has organized practice-orientated dental implantology courses based on the model of surgeon training in European hospitals, enabling dentists to have a firmer grasp of implantology.

Entering implantology can be difficult for dentists to achieve successfully. It is not a subject of university education, and with international universities and courses being focused largely on theoretical orientation, it proves a time-consuming endeavor. Furthermore, in international education and training programs, the dentists almost never work on patients or might work on phantom cases, classified as hands-on.

This, according to Prof. Rainer Valentin, board member of the German Society for Dental Implantology (DGZI), led to education in implantology placing an increasing emphasis on theoretical training, which then results in a neglect of practical experience and, most importantly, the proof thereof.

This phenomenon is repeated globally and results in dentists often lacking in confidence and developing a fear of complicated cases, which essentially leads to long pauses between individual implants and a limited learning curve.

The Q-Implant Marathon team with participants in Santo Domingo. Photos/Provided by Trinon Collegium Practicum

Learning by doing

The Q-Implant Marathon is one reaction to this situation in the continuous-education sector. Started in 2003 in Cuba, and since conducted more than 70 times in four countries worldwide, the course is designed to be purely hands-on with a real patient experience under strict supervision from international surgeons and university hospitals. Participants with a strong theoretical foundation in implantology spend five days assisting in and performing surgery, placing approximately 30 implants within this short period.

"One only is confident doing what one knows," said Dr. Harald Glas from Vienna, summarizing the positive effect of practical education. During the Q-Implant Marathon, Glas worked with international peers and supervisors on several cases a day. Every case is discussed beforehand with the supervising tutor and assisting surgeon; furthermore, even during the surgery, questions about surgical treatments are addressed.

Patients are prepared and followed-up by the resident team of the university hospital and, in most cases, are immediately provided with long-term temporary restorations so participants can see the result of the treatment and complete their photographic documentation.

The phased approach of the Q-Implant Marathon, which accounts for 45 dental CME points, divides participants in three levels: Beginner, Advanced I and Advanced II.

This gives dental practitioners an opportunity to learn the relevant practical knowledge they require at their home clinics.

Beginners' courses are working on basic implant cases whereas surgeons with considerable experience can venture into more complicated cases with the knowledge and safety of having a supervisor to discuss the case and assist during surgery.

The concept of hands-on courses has been influenced by surgeon training in European hospitals where emphasis on practical surgical training of young doctors is at the center from day one. The experienced surgeon guides the hand of the assistant physician and gives him the feeling for working on patients while in a safe and controlled environment.

"Learning by doing is the most successful way to gain experience in implantology and that is why we do it that way," said Dr. Alfredo Valencia, the scientific director of the Q-Implant Marathon program.

A focus on the United States

Today, the concept has been rolled out throughout three permanent locations worldwide with one in Dominican Republic and two courses in Asia. In the last eight years, the Trinon Collegium Practicum has seen more than 2,000 dentists participate in the Q-Implant Marathon with more than 12,000 patients treated and more than 30,000 implants placed.

The decision to conduct these hands-on courses in Dominican Republic stems from the rising number of dental implantologists in the United States and its surrounding regions, a growing number of patients demanding a high level of care and the overall lack of practice-orientated courses in close proximity to American dentists. The course in Dominican Republic is based in Santo Domingo and has been conducted more than 26 times. This course collaborates with private clinics, where the clinic equipment is comparable to U.S. standards; similarly, the infrastructure is more or less comparable to the situation in the United States. All of the Trinon Collegium Practicum courses have ensured that conditions under which surgeons work have appropriate standards including surgical equipment, professional tooth scaling for patients, digital X-ray equipment and modern dental treatment chairs.

The head instructor for the Q-Implant Marathon in Santo Domingo is Valencia, who studied human medicine at the Oviedo University in Spain and specialized in stomatology, oral-maxillofacial surgery and implantology over the years. Valencia is supported by a team of assisting tutors, whom he personally recruited. Most of these tutors have learned implantology from him.

"So I know them well and it is easy for me to work with them," Valencia said.

The atmosphere is harmonious: even after 12 hours in the surgery room, the groups still like to meet for an evening meal. Courses in Santo Domingo have developed even further over time with regard to patient care and technical aspects of surgery. One of the most important improvements has been patient selection. The local team is now able to assign patients to suit the ability and the needs of participants.

Q-Implant Marathon participants in Santo Domingo working in a team.

Contact information

The Q-Implant Marathon is conducted six to eight times a year in the Dominican Republic and Asia. To find out more about the Q-Implant Marathon, contact: Optimum Solution Group, Mac Kubiak, call (877) 705-1002, e-mail *info@optimumsolutiongroup.com* or visit *www.implantologycourses.com*

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gIDE GLOBAL INSTITUTE FOR DENTAL EDUCATION

AAID Research Foundation awards more than $165,000 for research projects

The future of implant dentistry is driven by research, and thanks to the AAID Research Foundation, more than $165,000 in grants were awarded to dental investigators in the last two years, the foundation announced.

"The AAID Foundation provides generous grants to post-graduate researchers for unbiased dental implant research to further the science of oral implantology through research and education," said Jaime Lozada, DMD, chairman, AAID Research Foundation. "The AAID strongly advocates evidence-based dentistry, and grants from the foundation are contributing significantly to the body of evidence in our field."

Lozada added that the AAID Foundation ranks as the leading grantor for dental implant research, and, overall, it has funded more than 70 research projects totaling more than $600,000. Individual grants range from $2,500 to $25,000.

"The future of implant dentistry will be built upon the commitments that the AAID Foundation makes today to support education, research and the advancement in the practice of implant dentistry," Lozada said.

One $10,000 AAID Foundation awardee, Mahmoud Torabinejad, DDS, PhD, Loma Linda University, is researching levels of patient satisfaction and complications during and after root canal treatments and single-tooth implants.

"Dr. Torabinejad' s research is an excellent example of the cutting-edge work the AAID Foundation is supporting that will give practitioners solid scientific evidence for making treatment decisions and recommendations to their patients," Lozada said.

Another grant recipient, Thomas Dodson, DDS, Massachusetts General Hospital, has worked on a study of implant survival rates and factors most commonly associated with implant failures.

"Less than 2 percent of implants fail, but this research should be helpful in determining which types of patient might be prone to possible implant failure," Lozada noted.

The AAID Foundation's awards are funded by contributions to the AAID Research Endowment Fund from AAID members, sponsors and friends. Income generated from the endowment is allocated exclusively to support implant research projects.

Dr. Jaime Lozada, chairman of the AAID Research Foundation

'The AAID strongly advocates evidence-based dentistry, and grants from the foundation are contributing significantly to the body of evidence in our field.'

AAID Foundation Awardees for 2012 will be announced at the AAID Annual Scientific Meeting, Oct. 7–11, in Washington, D.C.

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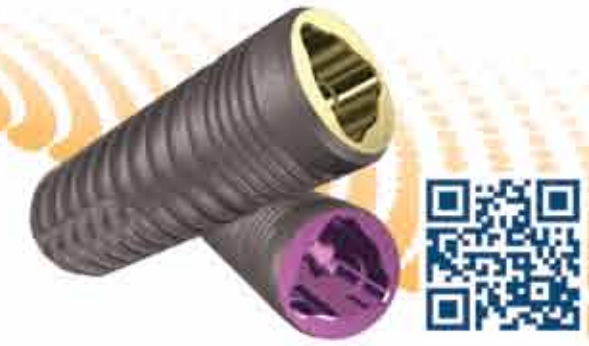

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[2]US list price for Tapered Screw-Vent with micro grooves, healing collar & straight abutment.
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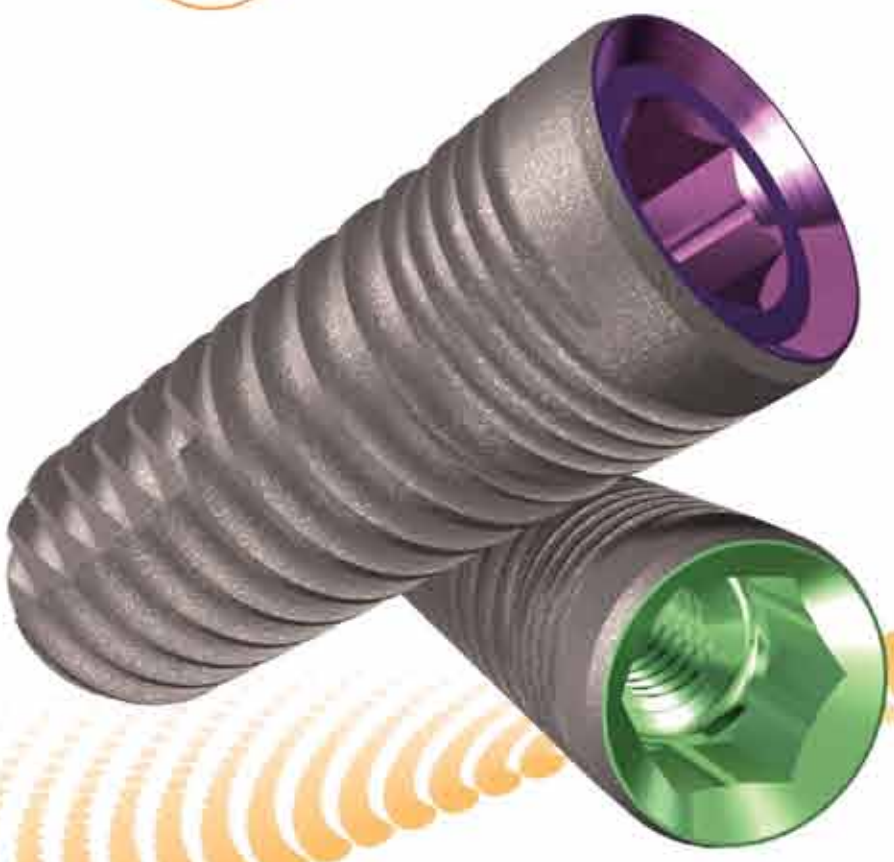

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Widest Range of Dimensional Options
The entire Legacy system includes seven implant diameters (3.2, 3.7, 4.2, 4.7, 5.2, 5.7, 7.0mm) & six implant lengths (6, 8, 10, 11.5, 13, 16mm)

	Laboratory Abutment	Straight Snap-On	Straight Contoured	15° Angled Contoured	Gold/ Plastic	Zirconia/Ti Abutment	Plastic Temporary Abutment	Ball Attachment	GPS™ Attachment	Angled GPS™ Attachment	Multiple-Unit w/Cap & Transfer Straight	Multiple-Unit w/Cap & Transfer Angled
Our price	$75	$85	$85	$85	$100	$120	$35	$107	$100	$120	$85	$100
Zimmer Dental*	$160	$215	$170	$180	$210	$239	$67	$178	$166	N/A	$202	N/A

Legacy1	Legacy2	Legacy3
Standard "V" Threads Matches Screw-Vent®	Spiral Threads for Increased Stability	Buttress Threads for Increased Surface

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