The Dent-Liner®

www.dent-line.com

Volume 16 | Issue 1 Winter 2012

Presurgical Implant Assessment Utilizing X-Resin*Flow*

Removable implant retained dentures can provide patients with a totally new outlook to life from a psychological stand point. It is a reassuring feeling they get from the most excellent retention and the prosthetic privacy. There are, however, certain protocols that should be addressed before a patient receives one or more dental implants. For example, dental and medical history, an intra-oral examination, recent X-rays and diagnostic models should be reviewed. A treatment plan may include a diagnostic wax-up showing the final outcome.

A vital part of treatment planning includes incorporating a surgical guide for implant placement. Implant placement procedures are somewhat simpler, however, accurate presurgical radiographic site assessment is key to ensure a successful result. There is a need for the clinician to implement radiographic imaging procedures to ascertain probable implant sites. The single largest apprehension a clinician could have, would be to place implants inaccurately in an anatomic space or accidentally intrude into the interior alveolar nerve, which would result in an implant catastrophe that a patient would consider professional misconduct.

A clinician would feel most distressed if their patient were to experience parathesia after implant placement. In addition, appropriate radiographic evaluation permits clinicians and specialists to determine more accurately where anatomic formations are to be found in relation to the projected implant site and to envision whether the presurgical site require bone graphs or sinus lifts.

Successful implant surgery utilizing Cone Beam CT Imaging can eliminate the risk involved, by proper treatment planning, proper patient evaluation and proper radiographs.

The Cone Beam CT technique is cost effective, widely available and is significantly precise and has important benefits over traditional X-ray techniques. Cone Beam CT scans are three dimensional as opposed to conventional X-rays which only expose a two dimensional view. A single CBCT study offers boundless views so that once captured on software, the images reflect from different angles, at different depths and indicate selective anomalies.

These images may be utilized to provide 3-D views of the patient's jaws to assist in the treatment plan for all dentitions and implant planning, delineating the very implant structures as true 1:1 views, or enlarged for closer examination.

Dicom data can provide a visual plan which includes:

(a) Locating and determining a linear measurement to vital anatomic structures.
(b) Measurement of alveolar bone width.
(c) Visualization of bone contours, dehiscences and fenestrations.
(d) Determination of whether a bone graft or sinus lift is needed.
(e) Selection of the most optimum implant size , length and type.
(f) Biomechanical analysis of the implant location and angulations.
(g) An increase in case acceptability by building patient confidence.
(h) Reduction in surgery time.

For a fully edentulous case, a new product from Bredent called X-Resin*Flow* has been introduced. This material is a radiopaque silicone varnish ideal for use in diagnosis, preoperative planning and prosthetically oriented planning. X-Resin*Flow* allows the clinician to fabricate a scan template with existing dentures in just a few minutes.

This radiopaque silicone varnish is applied to the teeth of a full denture and thinly spread using a disposable brush. The material is allowed to harden for a short moment. Make sure the

continued on page 3

Bredent's X-Resin*Flow* allows the clinician to fabricate a scan template with existing dentures in just a few minutes.
Order Number 58001159

Inside this Issue ...

dent-line of canada inc.
1170 Concession Road 4
Loretto, Ontario, L0G 1L0
www.dent-line.com
1-800-250-5111

Joseph Nagy; his remarkable contributions to dental technology

In this issue, I am digressing a little from the regular fare and content of the Dent-Liner to write about our dear friend Joseph Nagy, who passed away on November 21st, 2011 in his 83rd year. He was indeed one of the most remarkable people I have ever known. What started out as a simple business relationship, turned into one of the most profound friendships, I have experienced in my life.

Joe and I met initially in the early days of our company, Dent-Line of Canada. He contacted me about Bredent; he was very keen on component technology such as the Gnathoflex occlusal forms for making occlusions quickly and doing wax-ups fast using the preformed wax pontics. After meeting him, I was convinced that he was going to teach students using our technology and so without hesitation I gave him a kit of each for him to use in his seminars.

Several years later, we met each other by chance in Chicago for the MidWinter Meeting and shared a shuttle to our hotel. We spent a long time discussing dental technology and how we were treated by dentists in general. Unbeknownst to us, a dentist seated behind us heard the whole conversation. While waiting in the hotel reservation line, the dentist tapped me on the shoulder and invited me to join the American Prosthodontic Society – which I did thanks to Joe's enthusiastic encouragement.

It wasn't long before we become great friends, and that came to also include Joe's wife Barbara and my wife Angela. Joe had the remarkable ability to see things in a very special light, and his unique perspective on life was refreshing. No doubt it was due to his Jesuit upbringing while still a youth in Hungary, where his zeal for the art of debating was first instilled.

Joe had an extensive and unique background in dental technology in Hungary; a dentist would write out the prescription and the patient would in turn find their own dental laboratory to fill the prescription. In Hungary, the dental technologist was recognized with the same level of professionalism as a dentist, and he told us that when he became a dental technologist, he was met with congratulations and respect from both the public and dentists.

When Joe first came to Canada in the early 1950's, he found the system was not as it was in Hungary. It was very difficult for him to adjust to a system that was not as equitable. *I firmly believe it was this experience that led him on his life's quest – to see what he could do to change how dental technologists were viewed in our country and to bring us up to the professional level we experience today.*

Joe was one of the founders of the A.R.D.T. Magazine which was a Journal for the Association of Registered Dental Technologists, now known as the A.D.T.O. (Association of Dental Technologies of Ontario), and in its infancy, Joe wrote and with Barbara's help, printed the Journal in his basement on an old Ditto Printing Machine. The magazine developed over the years, and it was Joe who first invited and encouraged me to write for the Journal.

In the very early 1990's, the Regulated Health Professions Act was being revised and there was an interest in becoming involved since the Governing Board of Dental Technicians was already in existence. Joe was instrumental in getting dental technology on board and after many stake holder meetings, we were allowed to become Self-Regulated, and the College of Dental Technologists of Ontario (C.D.T.O.) was formed.

Joe and I were concerned about how this new legislation was going to affect Dental Technology, so we both ran for the first Council of the C.D.T.O and we were elected by our peers. The Council was comprised of 13 people, seven of which were Elected R.D.T.'s and six which were Public Appointees. Joe became the first President of our College and with Council worked for many years to guide our members under their new professional status.

It was during this time that the A.R.D.T. Journal became the Canadian Journal of Dental Technology; later Joe would hand it over to Ettore Palmeri, who has since developed it further into Spectrum Dialogue, a worldwide and highly esteemed publication.

Joe's positive influence and impact was not just limited to us; he helped mentor many people not just in his chosen profession of dental technology, but in the arts, in sailing and in fine gourmet cooking. If ever there was a true renaissance man, it was Joseph Nagy. He will be missed by so many.

Source; Peter T. Pontsa, RDT

Product Show Case: Bredent's 5 Motions Glue and Accelerator

"A can't live without and a must have in every laboratory!"

Bredent's 5 Motions Accelerator is a catalyst which allows the 5 Motions Super-Glue to quickly cure by enhancing the alkaline conditions of the polymerization. 5 Motions Spray is normally used to repair broken dies, models and to set up dowel pins for master models. Applying a bead of thick Super-Glue along a seam and then curing it with 5 Motions Accelerator significantly enhances a joint's strength. For difficult to bond materials, the Accelerator can be applied to one surface and the Super-Glue to the opposite surface. When brought together, they will bond instantly. 5 Motions Accelerator comes in a 200 ml spray can and activates Super-Glue instantly without degrading the strength of the Super-Glue. For more information and pricing call us at 1-800-250-5111.

5 Motions Glue
Order Number 36010026

5 Motions Accelerator
Order Number 36010027

Presurgical Implant Assessment Utilizing X-ResinFlow ...cont'd

Bredent X-Resin*Flow* is applied to the full denture using a standard cartridge gun.

Using a disposable brush, spread a layer of X-Resin*Flow* starting from the buccal.

Continue brushing onto both the lingual and buccal surfaces of the teeth.

Bredent's X-Resin*Flow* radiopaque silicone varnish is perfect for use in implant planning. X-Resin*Flow* helps fabricate scan templates utilizing the existing denture, and is recognizable in scanned DVT/CT images.

denture is seated properly in the patient's mouth.

Using Visio-Sil *(order number 54001200),* a non radiopaque transparent material, instruct the patient to bite firmly on the Visio-Sil bite registration during the scan. The patient should be instructed to be perfectly still, since image distortion due to the patient's motion can severely compromise the accuracy of the image.

The contours of the teeth can be clearly recognized in the scanned image DVT or CT. Prosthetically oriented alignment of the implants in the implant software can thus be enabled which facilitates planning considerably. If X-Resin*Flow* is applied to the basal area, the thickness of the mucosa can be clearly determined in the scanned image. The silicone varnish can be easily removed after the scan.

If a DVT is available in the practice, X-Resin*Flow* can be used to avoid the complex fabrication of a scan template. The scan template is immediately produced on location. If a patient comes to receive an initial diagnosis, a volume scan can be carried out using X-Resin*Flow.*

If an implant restoration is planned for later on, the data from the initial scan can be used for 3D implant planning without the need for the patient to undergo another scan procedure. This facilitates fast and low cost prosthetically oriented implant planning. If a fixed restoration is not indicated, then in the case of an overdenture, there are additional factors which need to be measured.

For example, implants placed to support an overdenture, should emerge within the body of the denture base so that components attached to the implant do not contradict with tooth setting areas of the denture. Implants should not be placed too far lingually since the acrylic could become bulky and impede the patient's phonetics.

In addition, overdentures have some leeway with regard to the mesiodistal positioning of implants. Never the less, it is technically beneficial to take advantage of their antero-posterior distribution. In a disparity to a fixed prosthesis supported by implants, non parallel implant paths under an overdenture can cause difficulties in attachment selection.

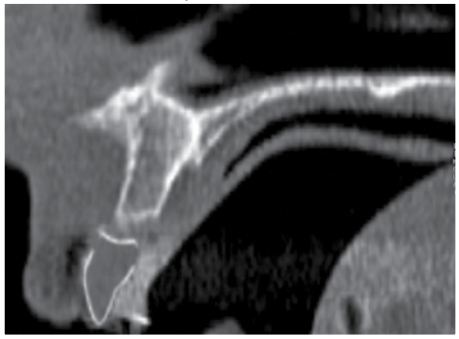
The Bredent VKS-SG attachment is one type utilized in many overdenture bar type restorations. Consequently with regard to overdentures, it is beneficial to position implants parallel whenever possible, to avoid constructing a more complicated bar substructure.

In conclusion, Bredent's X-Resin*Flow* can shorten the time and expense during treatment planning utilizing a denture as a radiopaque stent for capturing a precise scan when using a a Cone Beam CT Scanner.

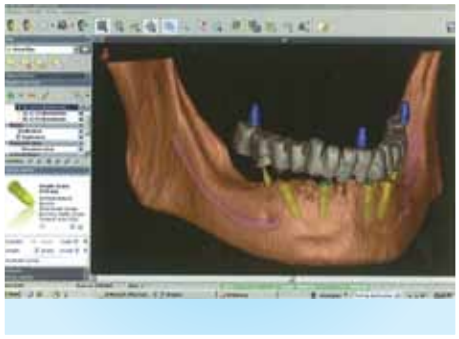
Source; Peter T. Pontsa, RDT

**** references are available upon request.***
*****For more information concerning this exciting new product, do not hesitate to contact Peter T. Pontsa, RDT or our helpful staff at 1-800-250-5111***

The mucosal area of the denture is applied to determine the mucosal thickness , then wait a moment for it to dry.



The resulting Cone Beam CT Scan reveals the denture relative to the body of bone.



DVT software utilizing the scan will help implant placement.

NOTE: The publication of pictures from "X-Resin Flow" were provided courtesy of Bredent GmbH.

Bredent's Sky Meeting;

Regeneration versus Functional Rehabilitation - *is this a contradiction?*

Bredent has eagerly been preparing for their SKY Meeting which will be held April 26th to 28th at the Sofitel Munich Bayerpost.

This international forum is a "Podium of Excellence" which will address the subjects of Implantology, Dental Technology and Implant Prosthetics as these directly relate to the dual needs a patient requires for rapid, but still aesthetic regeneration and functional rehabilitation.

The three day program consists of renowned international speakers that will be providing fascinating lectures and practical workshops. Learn everything about trend-setting methods in treatment and practice and the future developments in the laboratory from the planned lecture Programmee.

Participate in the in depth practice and laboratory-oriented workshops. Prices vary depending on if you will take in the full three day program of lectures (490 EUR plus applicable taxes) or the Saturday April 28th, 2012 Dental Technology Workshop (100 EUR plus taxes for your choice of two workshops).

Register early for the Excellence Courses (limited numbers of participants) with Dr. David Garber (Atlanta/USA), Prof. Dr. med. Dent. Joachim E. Zöller (Director of the Interdisciplinary Policlinic for Oral Surgery and Implantology at the University of Cologne) and DGOI President Dr. Georg Bayer (Landsberg). The main emphasis will be placed on reconstruction (Dr. Bayer), regeneration (Prof. Zöller) and aesthetics (Dr. Garber).

For your copy of the Final Programme contact Dent-Line of Canada Inc at 1-800-250-5111 or visit http://www.bredent-sky-meeting.

dent-line of canada

Loretto, Ontario, Canada, L0G 1L0
PHONE: 1-800-250-5111
or 519-942-9315
FAX:519-942-8150
EMAIL: Info@dent-line.com
www.dent-line.com

About Our Organization...

The Dent-Liner®; Volume 16, Issue 1
Publisher; Peter T. Pontsa RDT
Editor; A. van Breemen, BA

Subscription Rates:

Canada	**1 Year**	**$ 6.00**
USA	**1 Year**	**$ 8.00**
International	**1 Year**	**$16.00**

Continuing education credits apply for a review of this newsletter. For details contact the Quality Assurance Committee in your jurisdiction.

Announcements: Donations to Dental Technology

Peter Pontsa, RDT President of Dent-Line of Canada and Angela van Breemen visited George Brown College this past November 3rd, 2011 to present their annual gift to the dental technology program. This year, with the participation of Renfert USA , Dent-Line was pleased to donate a Twister Vacuum Mixing Unit.

George Brown College students welcomed Peter and Angela to their third year class. Bernie Mullen, RDT accepted the gift of the Twister Vacuum Mixing Unit on behalf of the College.

Also donated to the dental technology program at College Edouard Monpetit in December of 2011 was the Renfert 1808-1000 MT3 Wet Trimmer with Klettfix.

Dent-Line of Canada has over the years consistently donated to the dental techonology programs, and we have found it very rewarding to see students grow and mature into successful and responsible dental technologists, many of whom have become dental laboratory owners, employees, researchers or enterprising dental sales representatives. We also salute the dedicated and enthusiastic teachers and their dental institutions that make this possible.

Trade Show News and Announcements

Please join us for the Pacific Techno-Clinical Day at the Pacific Dental Conference which will be held on March 10th, 2012 at the Vancouver Convention Centre. Peter T. Pontsa will be providing an all new attachment seminar; Attachments, Fixed and Removable Prosthetics. We will be at DenTech West on April 13th and 14th, 2012 at the Coast Edmonton Plaza Hotel at which time Peter will also be presenting his attachment seminar. Technorama will be held this year at the Hilton Suites Toronto/Markham Conference Centre and Spa on April 20th and 21st, 2012. Finally, we will be visiting Halifax for the DentAtlan-Tech Summit on May 18th and May 19th, 2012. Don't miss your opportunity to see our attachment seminar at either Technorama or at the DentAtlan-Tech Summit. In June of this year, Dent-Line of Canada Inc. will be presenting a hands-on course on the Bredent products Q-Resin, Q-Base, and Thermoplastic clasps, to be held at the Denturism Study Club. For details contact us at 1-800-250-5111 or Palmeri Publishing at 1-905- 489-1970.