Biomaterials and implants stimulate global demand for dental products

The increasing demand for dental biomaterial and implants is driving the global dental equipment and consumables market. According to a report released by a US market research company MarketsandMarkets last month, both segments are expected to grow at a compound annual growth rate of 6 per cent—only slightly below the 7 per cent growth rate predicted for all market segments combined. Total market volume is forecasted to reach US$27.6 billion by 2015.

According to the report, the growth of these segments is expected to be highest in North America and the EU, where the generation of ageing baby boomers can afford high-priced dental procedures, including cosmetic treatments and implants. Improved orthodontic products are also in high demand, especially by younger people.

Improvements in the field of dental biomaterials and tissue regenerative material have enabled dentists to offer more natural and long-term dental solutions. The latest technology, such as CAD/CAM, reduces the overall turnaround time for dental procedures, while improving efficiency of dental practitioners further, the report states.
A method used in developing countries to restore dental cavities can be a viable alternative for conventional tooth restorations, scientists from Johannesburg in South Africa are reporting. In a systematic review involving clinical studies from China and the Middle East, they found that survival rates of restorations using the so-called Atraumatic Restorative Treatment (ART) are comparable and to some extend superior to those placed with amalgam.

Developed in Africa in the mid-80s, ART is a clinical procedure based on removing carious enamel and dentine using hand instruments only and restoring the tooth with an adhesive filling material such as glass-ionomer (GI). It is said to be painless and require minimal cavity preparation while conserving sound tooth tissue.

The World Health Organization currently recommends the procedure for application in developing countries with limited resources for treatment as well as elderly and patients with special needs in developed countries.

In the new review, the researchers from the University of Witwatersrand in Johannesburg compared 27 datasets of ART restorations with amalgam fillings in Class I, II and V cavities of primary and permanent teeth from clinics in Kuwait, Syria and China. Most of them did not show a difference between the success rates of ART and amalgam restorations, they said. In fact, four comparisons were even in favour of the procedure. They recommended to verify the findings through more randomized control trials, as the studies observed were done under unclear randomized sequence allocation.

According to WHO figures, caries prevalence in developing countries is still high despite preventative measures such as water fluoridation and improved school-based dental hygiene education.

GI restorations equally successful to amalgam

A child in Afghanistan receiving ART. (Photo courtesy of Afghanistan Relief Project, USA)

Endodontic procedures that only require one rotary instrument are causing controversy among specialists worldwide. In internet forums, endodontists are currently discussing the Pros and Cons of the new procedure. So-called single reciprocating file systems have been launched by several dental manufacturers over the last few months.

Developed by Canadian Lebanese scientists, the single file endo concept is said to require only one reciprocating file and no glide path or initial instrumentation for the majority of root canals. According to the manufacturers, the technique is supposed to cut working time and lower cross-contamination between patients, a common problem associated with the use of multiple files.

However, specialists are not so sure. “This current trend in file design and philosophy is the equivalent of doing brain surgery with a hammer and chisel. Anyone, who truly believes that Hans type anatomy can be dealt with by using one rotary file, is delusional,” a specialist in an US-based endo forum said.

“The technique requires a new motor, which will turn off many dentists who are already working with conventional rotary NiTi instruments,” a German internet blogger commented. “The bottom line is that the system has to offer considerable advantages or it will be rejected by the market despite its clinical potential.”

In a recent Dental Economics article, Manhattan-based dentist Dr Barry Musicant said that the technique could create a new standard for instrument use in endodontics. “Common sense says that single usage is a rationalisation to compensate for the weaknesses of rotary NiTi.”

Most reciprocating systems are already available in major markets.
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Scientific programme of the 33rd Asia Pacific Dental Congress

Sunday, 1 May
9 a.m. – 5 p.m.
TMU Symposium, Halls C and D
An update on the clinical management of temporomandibular disorders (Limited Attendance)
Speaker: Prof. Jeffrey Okeson (USA)

Monday, 2 May
9 a.m. – 12 a.m.
Prosthodontics Symposium, Halls C and D
“All ceramic restorations, an update: What a clinician must know about”
Speaker: Dr Farhad Vahidi (USA)

Implant Symposium, Halls C and D
Mini dental implants for fixed and removable prosthetics
Speaker: Dr Thomas Abraham (Malaysia)

Tuesday, 3 May
9 a.m. – 10.30 a.m.
Management considerations for the non-odontogenic toothache, Halls C and D
Speaker: Prof. Jeffrey Okeson (USA)

10.45 a.m. – 11.30 a.m.
Conservative restoration of endodontically treated teeth, Halls C and D
Speaker: Dr George Bogen (USA)

11.30 a.m. – 12.15 p.m.
Systemic diseases, oral mucosal lesions and the dental practitioner, Halls E and F
Speaker: Dr Thomas Abraham (Malaysia)

Use of titanium mesh for alveolar ridge augmentation in atrophic jaws, Halls E and F
Speaker: Prof. Tetsu Takahashi (Japan)

11.30 a.m. – 12.15 p.m.
Managing patients with erosion in dental practice: The ideal solution, Halls C and D
Speaker: Prof. Stephen Wei (Hong Kong)

2 p.m. – 3 p.m.
Non-grafted sinus lifting surgery in dental implant treatment, Halls C and D
Speaker: Dr David Chen (Taiwan)

2 p.m. – 3 p.m.
“Hard and soft tissue management to achieve better implant aesthetics”, Halls C and D
Speaker: Dr Emilio Maschera (Italy)

3 p.m. – 4 p.m.
Lumps and bumps—Recognition and management of common paediatric oral pathologies, Halls E and F
Speaker: Prof. Angus Cameron (Australia)

3.15 p.m. – 4.45 p.m.
“Hand and soft tissue management to achieve better implant aesthetics”, Halls C and D
Speaker: Dr Emilio Maschera (Italy)

3.15 p.m. – 4.45 p.m.
“Use of titanium mesh for alveolar ridge augmentation in atrophic jaws, Halls E and F
Speaker: Prof. Tetsu Takahashi (Japan)

4 p.m. – 4.45 p.m.
Diagnostic delay in oral cancer and facilitation of screening programmes, Halls E and F
Speaker: Dr Tetsu Nagas (Japan)

Wednesday, 4 May
9 a.m. – 10 a.m.
New approach in caries prevention, Halls E and F
Speaker: Prof. Roger Ellwood (UK)

11.30 a.m. – 12.15 p.m.
Management of traumatised immature permanent incisor, Halls C and D
Speaker: Dr George Bogen (USA)

11.30 a.m. – 12.15 p.m.
Conservative restoration of endodontically treated teeth, Halls C and D
Speaker: Dr George Bogen (USA)

11.30 a.m. – 12.15 p.m.
Conservative restoration of endodontically treated teeth, Halls C and D
Speaker: Dr George Bogen (USA)

12.15 p.m. – 12.30 p.m.
Prosthodontics, a specialty on the rise assisted by the discipline of implant dentistry, Halls E and F
Speaker: Prof. Angus Cameron (Australia)

12.30 p.m. – 1.30 p.m.
Implant vs. endodontics, Halls C and D
Speaker: Dr George Bogen (USA)

2 p.m. – 3.30 p.m.
Implant vs. endodontics, Halls C and D
Speaker: Dr George Bogen (USA)

2 p.m. – 4.45 p.m.
Cosmetic medicine, Halls E and F
Speaker: Dr Corazon Iloso, MD (Philippines)

2.45 p.m. – 3.30 p.m.
Creating aesthetic magic with porcelain laminates and crowns, Halls E and F
Speaker: Dr. Satish Goel (India)

4 p.m. – 4.45 p.m.
Diagnostic delay in oral cancer and facilitation of screening programmes, Halls E and F
Speaker: Dr Tetsu Nagas (Japan)

Caries prevalence in SE Asia: Possible role of fluoridated toothpaste, Halls E and F
Speaker: Dr Praphup Phonparamwit (Thailand)

4.30 p.m. – 5.15 p.m.
The Use of CBCT and laser in integrated orthodontic and implant treatment to enhance a successful clinical outcome, Halls C and D
Speaker: Dr How Kim Chuan (Malaysia)

Enhanced enamel benefits from a novel fluoride toothpaste, Halls E and F
Speaker: Dr. Satish Goel (India)

Thursday, 5 May
9 a.m. – 10.30 a.m.
Current concepts in cephalometrics, Halls C and D
Speaker: Prof. Victor Levy Leggett (USA)

9 a.m. – 9.45 a.m.
Paediatric dentistry, Halls E and F
Speaker: Dr Yoshiaki Ono (Japan)

9.45 a.m. – 10.30 a.m.
Direct versus indirect restoration, Halls E and F
Speaker: Dr Toru Nagao (Japan)

10.30 a.m. – 11.15 a.m.
Caries prevalence in SE Asia: Possible role of fluoridated toothpaste, Halls E and F
Speaker: Dr Praphup Phonparamwit (Thailand)

3.45 p.m. – 4.30 p.m.
Management of traumatised immature permanent incisor, Halls C and D
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The Use of CBCT and laser in integrated orthodontic and implant treatment to enhance a successful clinical outcome, Halls C and D
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Welcome message by Dr Hermogenes P. Villareal, General Chairman of APDC 2011

On behalf of the Organising Committee, it’s really a great honour and pleasure for me to invite you to the 33rd Asia Pacific Dental Congress 2011 here in Manila, Philippines. This will be held at the Philippine International Convention Centre, in Manila from 1-7 May 2011. The Theme of the Congress is “Advancing the pinacles of dental care.”

The annual congress of Asia Pacific Dental Federation is a most important event in the dental calendar of the Asia Pacific Region. During each congress, dental professionals from countries in the Asia Pacific Region take this as a welcome opportunity to share their expertise in the Continuing Education and Scientific Programmes to be presented. The affair will showcase the latest in dental materials and technology through various trade and commercial exhibitors. These activities will indeed contribute to the progress and development of dentistry in the Asia Pacific Region that will help improve the promotion of Oral Health, prevention of oral diseases and the clinical intervention brought about by oral diseases.

The Local Organising Committee is really working very hard to make sure that this important event will provide delegates, accompanying persons and guests a worthwhile and intellectually profitable programme of activities, help them develop better friendship, goodwill and understanding among ourselves in this dental community. The Social Programmes, Pre-Golf Tournament and prepared tours to interesting places will enable participants and guests to enjoy the culture and traditions of the Filipinos ranging from antiquity to modern times.

We hope that our colleagues will take time out from their busy schedule and take this wonderful opportunity for Continuing Education, and to experience and feel the well-known warmth, friendliness and hospitality of the Filipino people. You will leave Manila full of unforgettable experiences and fond memories.

Mabuhay and welcome to the Philippines!
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For more information about A-dec, visit a-dec.com or contact your local dealer.
The French Acteon Group has announced to showcase a number of products for dental practitioners at the APDC 2011 in Manila including their Sopix² digital X-ray system, the piezo ultrasonic generator P5 NewtonX5 as well as the RISKONTROL, air/water syringe tips collection.

The Sopix² features modern fibre-based CMOS technology for exceptional image quality as well as two sensor sizes for capturing one to three teeth and bisecting X-rays. Its ACE technology makes it possible to control the amount of radiation accumulated by the sensor to prevent overexposure and ensure that images are always clear.

According to the company, Sopix² was designed to fit easily into every practice configuration. A self-contained irrigation system and autoclavable handpiece equipped with LED light to improve visibility and working comfort. A colour coding system on the power selection dial corresponding to those on Satelec ultrasonic instruments allows for immediate recognition.

The RISKONTROL air/water syringe tips are supposed to protect dental practitioners and patients against the risks of direct or cross-contamination. The risk of microbial migration into the dental unit’s air and water lines is also eliminated, the company said. Without shape memory, the single-use tips are extremely flexible for perfect fit and quickly to remove. Therefore, it is not necessary to clean, decontaminate and sterilise the original tip of air/water syringes.

W&H EQUIPS ALEGRA WITH GENERATOR AND LED+

The Austrian dental manufacturer W&H has equipped their Alegra turbines & contra-angle handpieces with the new LED+. This improved lighting technology is supposed to create a more relaxed working environment in dental practices at no additional cost and regardless of which motor is used.

A generator in the turbine & contra-angle handpiece functions as an independent power source comparable to a bicycle dynamo. The generated light matches daylight and is colour-neutral as well as much brighter than conventional light, the company said. They added that LED+-technology also features optimal colour temperature, constant light quality and the lowest field of illumination. In addition, they have the highest lumen rating and colour rendering index (over 90) available on the market.

W&H recommends Alegra turbines & contra-angle handpieces that are compatible with all electric and air motors with ISO connectors for dentists who have a dental unit without a light or who like to work with LED+ light but whose micromotor only supplies simple light.

IVOCLAR PRESENTS ANOTHER BREAKTHROUGH IN PRESS TECHNOLOGY

The Liechtenstein-based dental company IvoCore Vivadent has recently introduced the first polycrystalline ingot for dental laboratories to create highly aesthetic restorations that show a life-like shade transition in just one procedure and without time-consuming layering.

The autonomous compact and high-powered piezo ultrasonic generator P5 NewtonX 5 features a self-contained irrigation system and autoclavable handpiece equipped with LED light to improve visibility and working comfort. A colour coding system on the power selection dial corresponding to those on Satelec ultrasonic instruments allows for immediate recognition.

According to W&H, their Alegra instruments can be thermally disinfected and sterilized. A laser-etched data matrix code is helping to identify the products and track hygiene and service processes.

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ACTEON PHILIPPINES
Booth 85–96

IVOCLAR PRESENTS ANOTHER BREAKTHROUGH IN PRESS TECHNOLOGY

Similar to IPS e.max Press, the new ingots consist of lithium disilicate glass-ceramic, a material with a flexural strength of 400 Mega-pascal providing a perfect fit, shape and function of the restorations. A patented processing technique from IvoCore Vivadent allows to produce Mutti restorations which are efficiently pressed by new accessory components and the EP 3000 or EP 5000 press furnaces. The final aesthetic properties are achieved with the co-ordinated products IPS e.max Ceram Shades, Essences and Glaze in a concluding characterization and glass firing cycle.

According to the company, IPS e.max Press Mutti is suitable for the fabrication of highly aesthetic monolithic anterior and posterior crowns as well as veneers that show a lifelike shade transition from the dentin to the incisal. It will be available in one size, one Bleach shade and the nine most popular A–D shades.

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ALPHADENT CORPORATION
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APDC Manila 2011—Exhibitors list

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Last update was 15 March, 2011.

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