

FOR THE DENTAL PROFESSIONALS

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To floss or to brush—that is the (interdental) question

Subgingival air polishing: A new method

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The 1st Emirates Paediatric Dentistry Club Conference

By EPDC

DUBAI, UAE: The Emirate Paediatric Dentistry Club (EPDC) has the great honor of hosting the regional Congress of the International Association of Paediatric Dentistry (IAPD) March 1 - 3, 2017. We are committed to make this joint EPDC first dental conference and the prestigious IAPD conference in Dubai, United

Arab emirates a very successful and a memorable conference. This will be the first meet of IAPD in the middle-east region.

The theme of IAPD Dubai 2017 is Bright Smiles into the Future and this conference will present a very comprehensive scientific program highlighting the latest evidence-based research and clinical topics

in the field of paediatric dentistry. These up-to-date topics will be delivered by high profile and renowned international speakers including: Prof Tim Wright (USA), Dr Bill Waggoner (USA), Prof Jorge Luis Castillo (Peru), Prof Richard Wellbury (UK), Prof Zafer Cehreli (Turkey), Dr Aziza



►Page 2 Board Members of the Emirates Paediatric Dentistry Club and CAPP Team Members (the Organizer)

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Aljohar (KSA) and will benefit paediatric dentists, dental students, general dental practitioners and other dental specialities. A pre-conference workshop on Primary Zirconia Crowns sponsored by NuSmile crowns and Pre-veneered Stainless Steel Crowns supported by 3M will also be held on 1st of March, 2017.

It gives us great pleasure to invite you all to the joint first EPDC and the



regional IAPD conference to be held in Dubai, the beautiful city in the United Arab Emirates. Please note that all registered participants will be entitled to free 2-year IAPD membership. Details of the congress can be found at www.epdc.ae.

The Centre for Advanced Professional Practices (CAPP) is the official event organizer. www.capp.ae



IAPD - Regional Meeting

&

The 1st Emirates Pediatric Dentistry Club Conference (EPDC)

March 1 - 3, 2017
Dubai, United Arab Emirates



Hands on workshops on 1st March, 2017
"Pediatric Zirconia Crowns and Primary Stainless Steel Crowns"

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Esthetic replacement of two restorations on mandibular second molar

By Dr. Giuseppe Chiodera, Italy

About the Case

Male patient, 28 years old. The patient came to the office for a routine check-up. The mandibular second molar showed two insufficient fillings (occlusal and buccal) with sec-

ondary caries, open margins and occlusal wear. Both restorations needed to be replaced. The patient opted for an esthetic, multi-layer composite restoration for a natural looking outcome.

Challenge

Poor accessibility and visibility of this restoration lead to a variety of clinical challenges such as composite placement and proper light curing. **DT**



Dr. Chiodera graduated from the University of Brescia with a degree in Dentistry. Winner of a scholarship of Kings College University of London in 2004. Dr. Chiodera is an author of articles in various national and international magazines. At the moment he is working in a private practice in Brescia and specialising primarily in conservative dentistry and endodontics.



Fig. 1: Initial situation: mandibular second molar with restorations require replacement.



Fig. 2: After placement of rubber dam the insufficient fillings were completely removed.



Fig. 3: After selective enamel etching, Single Bond Universal Adhesive was applied.



Fig. 4: Adhesive was cured for 10 seconds with Elipar™ DeepCure-S LED Curing Light after scrubbing and air drying steps were completed.



Fig. 5: Filtek™ Z350 XT Flowable Restorative, shade A3 was used as a liner for easy adaptation.



Fig. 6: Dentin was replaced with incremental placement and curing of Filtek™ Z350 XT Universal Restorative, shade A3B.



Fig. 7: Enamel was replaced with Filtek™ Z350 XT Universal Restorative, shade A3E and light cured. Stains were applied in the fissure.



Fig. 8: The initial finishing was completed with Sof-Lex™ Discs, followed by pre-polishing with Sof-Lex™ Pre-Polishing Spiral and high gloss polish with Sof-Lex™ Diamond Polishing Spiral.



Fig. 9: Final restorations with an excellent esthetic appearance.

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Filtek™ Z350 XT Universal Restorative polished with Sof-Lex™ Diamond Polishing System (left) vs. TPH Spectra® Universal Composite polished with Enhance® Finishing System and PoGo® Polishing System (right).

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Aesthetic laser therapy correction of physiological gingival hyperpigmentation

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By Howard Gluckman, Jonathan Du Toit, South Africa

A beautiful smile is dependent on many factors. One of those factors is the gingival scaffold. Symmetry, proportion, as well as colour and appearance of the gingiva are critical to an aesthetically pleasing smile. Physiological gingival hyperpigmentation does not present as clinical pathology requiring intervention, nonetheless it may be of aesthetic concern to the patient. Minimally invasive intervention by means of cryosurgery, electrosurgery, laser therapy or other may produce dramatic change in the appearance of the patient's smile with a sustainable, long-term aesthetic outcome.

Hereafter a case is presented demonstrating laser therapy removal of gingival hyperpigmentation with stable, pink gingival aesthetics at the 2-year follow-up.

Case report

A 34-year-old female patient of Indian descent presented by referral to a specialist in periodontics and oral medicine at her request for "pink gums". The patient was a non-smoker and the medical history was non-contributory. Examination of the face denoted multiple, poorly defined, hyperpigmented macules of the lips, mild in severity and greater in number on the lower lip. The patient's high smile line was noted with excessive gingival display, the entirety of which involved hyperpigmentation, blue-black/dark brown in colour (Fig. 1). Intraoral examination denoted a healthy, largely restorative-free dentition, with exemplary oral hygiene maintenance.

Hyperpigmentation was noted involving the attached gingiva of both the mandible and maxilla, with the latter greater in severity (Fig. 2). The patient scored 4 on the Dummet Oral Pigmentation Index in terms of pigmentation intensity (heavy clinical pigmentation), and scored 2 on the Takashi melanin pigmentation index in terms of its extension (formation of continuous ribbon extending from the neighbouring solitary units).⁴ In both the mandible and the maxilla the hyperpigmentation appeared mostly as singular, posteriorly extending macular lesions with well demarcated borders limited coronal to the mucogingival junctions. A diagnosis of physiological gingival hyperpigmentation was made and intervention for aesthetic correction was indicated (the patient initially sought treatment of the maxilla only). Digital smile design (DSD) and smile analysis of the patient indicated need for correction of the altered passive eruption. De-epithelialization of the affected areas as well as crown lengthening by laser gingivoplasty was opted for. The working field was retracted and isolated (OptraGate, Ivoclar Vivadent), and local anaesthesia achieved by slow infiltration of a 4% articaine with adrenaline (1:200,000) local anaesthetic solution (Ubistesin™ forte, 3M ESPE). The area, mucosa and teeth surfaces, were cleaned with sterile gauze soaked in chlorhexidine gluconate aqueous solution (never use an alcohol solution with medical lasers). An Er,Cr:YSSG laser (Waterlase iPlus 2.0, Biolase) was used for all the periodontal soft tissue surgeries. The crown lengthening by gingivectomy was first carried out as per the DSD guide, with a fine tip (MGG6),



Figure 1: Preoperative view of the patient's smile



Figure 2: Retracted, preoperative, intraoral view demonstrating the degree of pigmentation and extension of the affected areas



Figure 3: Immediately postoperative, crown lengthening and deepithelialization of pigmented tissue completed



Figure 4: 10-days postoperative, rapid healing with dramatic results in gingival colour



Figure 5: The patient's smile 10 days after the laser deepithelialization and crown lengthening



Figure 6: Patient's smile at the 2-year recall; dental bleaching, increased clinical crown size, coral-pink gingiva, all contribute to a healthy, aesthetic smile

applied more parallel to the tooth, with the unit's power settings at 3W 75Hz, with water and air settings 50

and 40 respectively. Thereafter, a broader, chisel tip (MC3) was interchanged for the depigmentation/gross de-epithelialization, with power settings increased to 5W 25Hz. The tip size and power allowed for faster removal of tissue with water and air settings on for cooling.

Broad, gradual strokes de-epithelialized the pigmented areas up to 1–2 mm beyond the lesions' borders. To conclude the procedure, the unit was set to "laser bandage" mode, with lowered power settings at 1–1.5W 75Hz, and water and air off for hemostasis, leaving a layer of coagulum that would aid with the tissue healing. After the entire affected area was de-epithelialized (Fig. 3) postoperative instructions were given (no tooth brushing near the treated area for 1 week, rinse with chlorhexidine mouthwash BID 1 minute (Andolex C, iNova Pharmaceuticals), soft diet avoiding spicy/irritating foods). The patient was recalled at 10 days, reporting having had no pain or discomfort, and demonstrating near complete healing of the entire treated area (Fig. 4). There were no areas of hyperpigmentation noted (Fig. 5). The patient was rescored as zero for both pigmentation indices. Following dental bleaching the patient presented at the 2-year recall with no notable signs of repigmentation. The patient remained a score

of zero on both indices. The gingival contour and colour remained stable with aesthetic results pleasing to the patient (Fig. 6).

Discussion

Pigmentation of the gingiva may pose an aesthetic concern to the patient seeking cosmetic correction thereof. Laser depigmentation is an evidence-supported, beneficial treatment modality.¹ "Laser" is an acronym for light amplification by stimulated emission of radiation.⁷ Possibly the first report of laser radiation on oral soft tissues was as early as 1965.⁸ The first commercial laser for use in dentistry, the dLase 300 Nd:YAG laser, was introduced in 1990.⁶ At present, a range of laser wavelengths are used in dentistry for a plethora of applications (Table 1). The fundamental mode of action of lasers is that waves consisting of photons (basic unit of radiant energy, light) travel at the speed of light and these waves can be defined by their wavelength and amplitude.¹¹ Amplitude is the vertical height of the wave, and in lasers this corresponds to "brightness", its potential energy to do work. Wavelength is the distance between two corresponding points on the wave – the unit typically in laser dentistry is

Laser type	Active medium	Wavelength (nm)	Treatments, applications
Excimer lasers	Argon fluoride (ArF)	488	Hard tissue ablation, phased out of dentistry. Medical use primarily
	Xenon-chloride (XeCl)	308	Dental caries and calculus detection
Gas lasers	Carbon dioxide (CO ₂)	9300; 10,600	Sulcular debridement, peri-implantitis, soft tissue surgery
	Argon (Ar)	488 - 514	Phased out of dentistry. Medical use primarily.
	Helium-neon (HeNe)	630	Pulp vitality testing, therapeutic photobiomodulation
Diode lasers	Indium-gallium-arsenide-phosphorus (InGaAsP)	800 – 1064	Dental caries and calculus detection
	Gallium-aluminum-arsenide (GaAlAs)		Intraoral general and implant soft tissue surgery, sulcular debridement (subgingival curettage in periodontitis and periimplantitis), analgesia, treatment of dentin hypersensitivity, pulpotomy, root canal disinfection, aphthous ulcers, gingival depigmentation
	Gallium-arsenide (GaAs)		
Solid-state lasers	Potassium titanyl phosphate (KTP)	532	Dental bleaching, medical applications
	Neodymium:yttrium-aluminum-garnet (Nd:YAG)	1064	Soft tissue surgery, sulcular debridement, analgesia, dentin hypersensitivity, pulpotomy, root canal disinfection, enamel caries removal, aphthous ulcers, gingival depigmentation
Erbium group:	Erbium-doped yttrium aluminum garnet (Er:YAG)	2940	Caries removal, cavity preparation, soft tissue surgery, sulcular debridement (teeth and implants), scaling root surfaces, osseous surgery,
	Erbium: yttrium-scandium-gallium garnet (Er:YSSG)	2790	dentin hypersensitivity, analgesia, pulpotomy, root canal treatment & disinfection, aphthous ulcers, gingival pigmentation
	Erbium, chromium: yttrium-scandium-gallium garnet (Er,Cr:YSSG)	2780	
Other	Low level lasers	600 – 635	Non-surgical, photobiomodulation, caries detection

Table 1: Lasers currently used in dentistry

