The new frontier restorative dentistry

By Hu Friedy

The Adhesthetics Theca kit is composed of four unique instruments designed by Dr. Federico Ferraris in collaboration with Hu Friedy. It is a unique set of instruments created for use during the clinical phases of both direct and indirect restorative dentistry to help clinicians achieve positive results through clinical excellence.

The Main Shaper, the Fine Shaper, the 3D Shaper and the Direct Caliper are all made using XT6 technology, a dark Aluminum Titanium Nitride (ATiN) coating that offers superb contrast in comparison to composite materials and tooth structure.

The coating is also incredibly slick, resisting the adhesion of sticky composite materials. The smooth handle is not only ergonomic and lightweight, but each instrument has its own distinct set of colour cones, making instrument identification simple. The set of four instruments includes an IMS Cassette, which prevents the instruments from being damaged during transportation and sterilization protocols.

TNFF1/2
- Manipulation of composite on buccal surfaces during direct anterior restorations. Class IV and V cases, direct veneers restorations and general esthetic restorations. The tip’s lance shape and flexibility allow for it to adapt to restorative material and is also effective in removing excess material from the vestibular region by using its edge (Fig. 7). Its flexibility allows for restorative materials to be manipulated with a delicate touch. It is sturdier than a standard brush however less rigid than a standard spatula.

TNFF2
- Application of medium-great quantity of material directly on the tooth or as a material carrier. Its round shape and rigidity allow for the manipulation of restorative materials in wide cavities. It is also effective when placing material on wide surfaces (Fig. 8). Dimensions of working part length 15.5 mm, width 2.5 mm and thickness 0.4mm.

FF3
- Anatomical modelling of restorative materials on anterior and posterior teeth as well as the placement of retraction cord. A distinctive characteristic of this spatula (FF3 straight and FF3 angled) is its flexibility. Its thin design allows for precise modelling (Fig. 9 and 10). It is particularly useful for deep cavities. It is also helpful during procedures where high magnification is used because its length allows for easier access to these deep regions while not interfering with the clinician’s field of vision. Retraction cord can be placed precisely with the thin instrument tip (Fig. 14).

FF4
- Modelling of restorative materials in deep cavities (Fig. 14). Anatomical modelling of restorative materials on anterior and posterior teeth allows for precise modelling (Fig. 9). Of anatomical dentinal or superficial elements on anterior teeth. The unique teardrop shape of this point makes it excellent for sculpting materials in both posterior and anterior cases.

FF5
- Scouring thin sucula as well as finishing of the margins and thin moldings on posterior and anterior direct restorations. Application of fluid material in deep cavities (Fig. 19). Positioning of flowable materials in occlusal sulci, coating low viscosity materials, removal of excesses of high viscosity cementation material and control of margins after cementation (Fig. 27) point makes it excellent for sculpting materials in both posterior and anterior cases.

This instrument is a restorative probe with a flat head (not rounded, as most periodontal probes) with grooves at 0.5 mm increments. The tip is angled at 45° which when aligned against the preparation bevel, allows for the thickness of dental material and residual buccal enamel to be determined.

Align Technology showcases its digital dentistry solutions at DLS4 Bahrain

By Align Technology, Inc.

Align Technology, Inc. (NASDAQ: ALGN) is a global medical device company engaged in the design, manufacture and marketing of the Invisalign system, the most advanced clear aligner system in the world, and iTero intraoral scanners and equipment for orthodontics and restorative dentistry, which highlights its digital solutions that have helped transform the lives of millions of dentists at the fourth International Dental Congress & Exhibition (IDC4). The event will take place at Al Rotana Hotel, Amwaj Islands in Bahrain, from Nov. 14 to 16, 2019.

One of the highlights of the event will be an Invisalign seminar, hosted by Dr. Mario Greco, the visiting professor at the University of Ferrara, who will discuss in detail the advantages of clear aligners versus conventional appliances. The seminar is open to all delegates of DLS4, and will be held on November 15 from 1 to 5 p.m. Dr. Greco will also lead a plenary lecture on November 15 from 10.30 to 11.30 a.m. on ‘The Effective Affiliates for Aligned Digital Orthodontics.”

In addition to the lecture and the workshop, Align Technology’s exhibition stand will showcase its digital dentistry solutions, including the Invisalign clear aligner system that helps straighten teeth of teenagers and adults without the need for a brace.

Invisalign’s Mandibular Advance- ment feature combines the benefits of the most advanced clear aligner system in the world with features for moving lower jaw forward while simultaneously aligning the teeth. Invisalign treatment with mandibular advancement offers convenience and barrier visible treatment in comparison to functional appliances. The treatment is done without the need for elastics typically used to treat Class II patients.

Mawlid Chaoui, Align Technology general manager for Middle East and Africa, said: “DLS4 Bahrain is a truly global event that brings together dental experts and medical professionals to discuss evolving trends as well as the challenges faced. We are extending our support to the event as a Diamond Sponsor in addition to hosting Dr. Mario Greco at the event to present the advances we have made in digital dentistry. Today, our Invisalign clear aligner systems and iTero Element scanner are a popular choice among practitioners and we aim to leverage our participation to strengthen doctor awareness about our innovative products and solutions.”

Invisalign clear aligners help move teeth without the use of braces, mini screws or mini implants. Invisalign aligners are removable, easy to clean and made of a proprietary material called SmartTrack, developed specially for Align, which differentiates the Invisalign system from traditional braces as well as alternative clear aligner offerings.